MODIFIED 2' AND 3'-NUCLEOSIDE PRODRUGS FOR TREATING FLAVIVIRIDAE INFECTIONS

CROSS-REFERENCE TO RELATED APPLICATIONS

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This application claims the benefit of priority to U.S. Provisional application No. 60/392,350, filed June 28, 2002; U.S. Provisional Application No. 60/466,194, filed April 28, 2003; and U.S. Provisional Application No. 60/470,949, filed May 14, 2003, the disclosures of each of which are incorporated herein by reference.

FIELD OF THE INVENTION

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This invention is in the area of pharmaceutical chemistry, and is in particular, a 2' and/or 3' prodrug of 6-modified, 1', 2', 3' or 4'-branched pyrimidine nucleoside or 8-modified, 1', 2', 3' or 4'-branched purine nucleoside for the treatment of a *Flaviviridae* infection, such as a hepatitis C virus infection.

BACKGROUND OF THE INVENTION

15 Flaviviridae Viruses

The Flaviviridae family of viruses comprises at least three distinct genera: pestiviruses, which cause disease in cattle and pigs; flaviviruses, which are the primary cause of diseases such as dengue fever and yellow fever; and hepaciviruses, whose sole member is HCV. The flavivirus genus includes more than 68 members separated into groups on the basis of serological relatedness (Calisher et al., J. Gen. Virol, 1993, 70, 37-43). Clinical symptoms vary and include fever, encephalitis and hemorrhagic fever (Fields Virology, Editors: Fields, B. N., Knipe, D. M., and Howley, P. M., Lippincott-Raven Publishers, Philadelphia, PA, 1996, Chapter 31, 931-959). Flaviviruses of global concern that are associated with human disease include the dengue hemorrhagic fever viruses (DHF), yellow fever virus, shock syndrome and Japanese encephalitis virus (Halstead, S. B., Rev. Infect. Dis., 1984, 6, 251-264; Halstead, S. B., Science, 239:476-481, 1988; Monath, T. P., New Eng. J. Med., 1988, 319, 641-643).

The pestivirus genus includes bovine viral diarrhea virus (BVDV), classical swine fever virus (CSFV, also called hog cholera virus) and border disease virus (BDV) of sheep

(Moennig, V. et al. *Adv. Vir. Res.* 1992, *41*, 53-98). Pestivirus infections of domesticated livestock (cattle, pigs and sheep) cause significant economic losses worldwide. BVDV causes mucosal disease in cattle and is of significant economic importance to the livestock industry (Meyers, G. and Thiel, H.-J., *Advances in Virus Research*, 1996, *47*, 53-118; Moennig V., et al, *Adv. Vir. Res.* 1992, *41*, 53-98). Human pestiviruses have not been as extensively characterized as the animal pestiviruses. However, serological surveys indicate considerable pestivirus exposure in humans.

Pestiviruses and hepaciviruses are closely related virus groups within the Flaviviridae family. Other closely related viruses in this family include the GB virus A, GB virus A-like agents, GB virus-B and GB virus-C (also called hepatitis G virus, HGV). The hepacivirus group (hepatitis C virus; HCV) consists of a number of closely related but genotypically distinguishable viruses that infect humans. There are approximately 6 HCV genotypes and more than 50 subtypes. Due to the similarities between pestiviruses and hepaciviruses, combined with the poor ability of hepaciviruses to grow efficiently in cell culture, bovine viral diarrhea virus (BVDV) is often used as a surrogate to study the HCV virus.

The genetic organization of pestiviruses and hepaciviruses is very similar. These positive stranded RNA viruses possess a single large open reading frame (ORF) encoding all the viral proteins necessary for virus replication. These proteins are expressed as a polyprotein that is co- and post-translationally processed by both cellular and virus-encoded proteinases to yield the mature viral proteins. The viral proteins responsible for the replication of the viral genome RNA are located within approximately the carboxy-terminal. Two-thirds of the ORF are termed nonstructural (NS) proteins. The genetic organization and polyprotein processing of the nonstructural protein portion of the ORF for pestiviruses and hepaciviruses is very similar. For both the pestiviruses and hepaciviruses, the mature nonstructural (NS) proteins, in sequential order from the amino-terminus of the nonstructural protein coding region to the carboxy-terminus of the ORF, consist of p7, NS2, NS3, NS4A, NS4B, NS5A, and NS5B.

The NS proteins of pestiviruses and hepaciviruses share sequence domains that are characteristic of specific protein functions. For example, the NS3 proteins of viruses in both groups possess amino acid sequence motifs characteristic of serine proteinases and of helicases (Gorbalenya et al. (1988) *Nature* 333:22; Bazan and Fletterick (1989) *Virology* 171:637-639; Gorbalenya et al. (1989) *Nucleic Acid Res.* 17.3889-3897). Similarly, the NS5B proteins of pestiviruses and hepaciviruses have the motifs characteristic of RNA-

directed RNA polymerases (Koonin, E.V. and Dolja, V.V. (1993) *Crit. Rev. Biochem. Molec. Biol.* 28:375-430).

The actual roles and functions of the NS proteins of pestiviruses and hepaciviruses in the lifecycle of the viruses are directly analogous. In both cases, the NS3 serine proteinase is responsible for all proteolytic processing of polyprotein precursors downstream of its position in the ORF (Wiskerchen and Collett (1991) Virology 184:341-350; Bartenschlager et al. (1993) J. Virol. 67:3835-3844; Eckart et al. (1993) Biochem. Biophys. Res. Comm. 192:399-406; Grakoui et al. (1993) J. Virol. 67:2832-2843; Grakoui et al. (1993) Proc. Natl. Acad. Sci. USA 90:10583-10587; Hijikata et al. (1993) J. Virol. 67:4665-4675; Tome et al. (1993) J. Virol. 67:4017-4026). The NS4A protein, in both cases, acts as a cofactor with the NS3 serine protease (Bartenschlager et al. (1994) J. Virol. 68:5045-5055; Failla et al. (1994) J. Virol. 68: 3753-3760; Lin et al. (1994) 68:8147-8157; Xu et al. (1997) J. Virol. 71:5312-5322). The NS3 protein of both viruses also functions as a helicase (Kim et al. (1995) Biochem. Biophys. Res. Comm. 215: 160-166; Jin and Peterson (1995) Arch. Biochem. Biophys., 323:47-53; Warrener and Collett (1995) J. Virol. 69:1720-1726). Finally, the NS5B proteins of pestiviruses and hepaciviruses have the predicted RNA-directed RNA polymerases activity (Behrens et al.(1996) EMBO J. 15:12-22; Lchmannet al.(1997) J. Virol. 71:8416-8428; Yuan et al.(1997) Biochem. Biophys. Res. Comm. 232:231-235; Hagedorn, PCT WO 97/12033; Zhong et al.(1998) J. Virol. 72.9365-9369).

Hepatitis C Virus

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The hepatitis C virus (HCV) is the leading cause of chronic liver disease worldwide. (Boyer, N. et al. J. Hepatol. 32:98-112, 2000). HCV causes a slow growing viral infection and is the major cause of cirrhosis and hepatocellular carcinoma (Di Besceglie, A. M. and Bacon, B. R., Scientific American, Oct.: 80-85, (1999); Boyer, N. et al. J. Hepatol. 32:98-112, 2000). An estimated 170 million persons are infected with HCV worldwide. (Boyer, N. et al. J. Hepatol. 32:98-112, 2000). Cirrhosis caused by chronic hepatitis C infection accounts for 8,000-12,000 deaths per year in the United States, and HCV infection is the leading indication for liver transplantation.

HCV is known to cause at least 80% of posttransfusion hepatitis and a substantial proportion of sporadic acute hepatitis. Preliminary evidence also implicates HCV in many cases of "idiopathic" chronic hepatitis, "cryptogenic" cirrhosis, and probably hepatocellular carcinoma unrelated to other hepatitis viruses, such as Hepatitis B Virus (HBV). A small

proportion of healthy persons appear to be chronic HCV carriers, varying with geography and other epidemiological factors. The numbers may substantially exceed those for HBV, though information is still preliminary; how many of these persons have subclinical chronic liver disease is unclear. (The Merck Manual, ch. 69, p. 901, 16th ed., (1992)).

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HCV is an enveloped virus containing a positive-sense single-stranded RNA genome of approximately 9.4kb. The viral genome consists of a 5' untranslated region (UTR), a long open reading frame encoding a polyprotein precursor of approximately 3011 amino acids, and a short 3' UTR. The 5' UTR is the most highly conserved part of the HCV genome and is important for the initiation and control of polyprotein translation. Translation of the HCV genome is initiated by a cap-independent mechanism known as internal ribosome entry. This mechanism involves the binding of ribosomes to an RNA sequence known as the internal ribosome entry site (IRES). An RNA pseudoknot structure has recently been determined to be an essential structural element of the HCV IRES. Viral structural proteins include a nucleocapsid core protein (C) and two envelope glycoproteins, E1 and E2. HCV also encodes two proteinases, a zinc-dependent metalloproteinase encoded by the NS2-NS3 region and a serine proteinase encoded in the NS3 region. These proteinases are required for cleavage of specific regions of the precursor polyprotein into mature peptides. The carboxyl half of nonstructural protein 5, NS5B, contains the RNAdependent RNA polymerase. The function of the remaining nonstructural proteins, NS4A and NS4B, and that of NS5A (the amino-terminal half of nonstructural protein 5) remain unknown.

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A significant focus of current antiviral research is directed to the development of improved methods of treatment of chronic HCV infections in humans (Di Besceglie, A. M. and Bacon, B. R., *Scientific American*, Oct.: 80-85, (1999)).

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Treatment of HCV Infection with Interferon

Interferons (IFNs) have been commercially available for the treatment of chronic hepatitis for nearly a decade. IFNs are glycoproteins produced by immune cells in response to viral infection. IFNs inhibit replication of a number of viruses, including HCV, and when used as the sole treatment for hepatitis C infection, IFN can in certain cases suppress serum HCV-RNA to undetectable levels. Additionally, IFN can normalize serum amino transferase levels. Unfortunately, the effect of IFN is temporary and a sustained response occurs in only 8%-9% of patients chronically infected with HCV (Gary L. Davis. *Gastroenterology* 118:S104-S114, 2000). Most patients, however, have difficulty tolerating

interferon treatment, which causes severe flu-like symptoms, weight loss, and lack of energy and stamina.

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A number of patents disclose Flaviviridae, including HCV, treatments, using interferon-based therapies. For example, U.S. Patent No. 5,980,884 to Blatt et al. discloses methods for retreatment of patients afflicted with HCV using consensus interferon. U.S. Patent No. 5,942,223 to Bazer et al. discloses an anti-HCV therapy using ovine or bovine interferon-tau. U.S. Patent No. 5,928,636 to Alber et al. discloses the combination therapy of interleukin-12 and interferon alpha for the treatment of infectious diseases including HCV. U.S. Patent No. 5,849,696 to Chretien et al. discloses the use of thymosins, alone or in combination with interferon, for treating HCV. U.S. Patent No. 5,830,455 to Valtuena et al. discloses a combination HCV therapy employing interferon and a free radical scavenger. U.S. Patent No. 5,738,845 to Imakawa discloses the use of human interferon tau proteins for treating HCV. Other interferon-based treatments for HCV are disclosed in U.S. Patent No. 5,676,942 to Testa et al., U.S. Patent No. 5,372,808 to Blatt et al., and U.S. Patent No. 5,849,696. A number of patents also disclose pegylated forms of interferon, such as, U.S. Patent Nos. 5,747,646, 5,792,834 and 5,834,594 to Hoffmann-La Roche Inc; PCT Publication No. WO 99/32139 and WO 99/32140 to Enzon; WO 95/13090 and US Patent Nos. 5,738,846 and 5,711,944 to Schering; and U.S. Patent No. 5,908,621 to Glue et al..

Interferon alpha-2a and interferon alpha-2b are currently approved as monotherapy for the treatment of HCV. ROFERON®-A (Roche) is the recombinant form of interferon alpha-2a. PEGASYS® (Roche) is the pegylated (i.e. polyethylene glycol modified) form of interferon alpha-2a. INTRON®A (Schering Corporation) is the recombinant form of Interferon alpha-2b, and PEG-INTRON® (Schering Corporation) is the pegylated form of interferon alpha-2b.

Other forms of interferon alpha, as well as interferon beta, gamma, tau and omega are currently in clinical development for the treatment of HCV. For example, INFERGEN (interferon alphacon-1) by InterMune, OMNIFERON (natural interferon) by Viragen, ALBUFERON by Human Genome Sciences, REBIF (interferon beta-1a) by Ares-Serono, Omega Interferon by BioMedicine, Oral Interferon Alpha by Amarillo Biosciences, and interferon gamma, interferon tau, and interferon gamma- 1b by InterMune are in development.

Ribivarin

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Ribavirin (1-β-D-ribofuranosyl-1-1,2,4-triazole-3-carboxamide) is a synthetic, non-interferon-inducing, broad spectrum antiviral nucleoside analog sold under the trade name, Virazole (The Merck Index, 11th edition, Editor: Budavari, S., Merck & Co., Inc., Rahway, NJ, p1304, 1989). United States Patent No. 3,798,209 and RE29,835 disclose and claim ribavirin. Ribavirin is structurally similar to guanosine, and has in vitro activity against several DNA and RNA viruses including *Flaviviridae* (Gary L. Davis. *Gastroenterology* 118:S104-S114, 2000).

Ribavirin reduces serum amino transferase levels to normal in 40% of patients, but it does not lower serum levels of HCV-RNA (Gary L. Davis. *Gastroenterology* 118:S104-S114, 2000). Thus, ribavirin alone is not effective in reducing viral RNA levels. Additionally, ribavirin has significant toxicity and is known to induce anemia.

Ribavirin is not approved fro monotherapy against HCV. It has been approved in combination with interferon alpha-2a or interferon alpha-2b for the treatment of HCV.

Combination of Interferon and Ribavirin

The current standard of care for chronic hepatitis C is combination therapy with an alpha interferon and ribavirin. The combination of interferon and ribavirin for the treatment of HCV infection has been reported to be effective in the treatment of interferon naïve patients (Battaglia, A.M. et al., Ann. Pharmacother. 34:487-494, 2000), as well as for treatment of patients when histological disease is present (Berenguer, M. et al. Antivir. Ther. 3(Suppl. 3):125-136, 1998). Studies have show that more patients with hepatitis C respond to pegylated interferon-alpha/ribavirin combination therapy than to combination therapy with unpegylated interferon alpha. However, as with monotherapy, significant side effects develop during combination therapy, including hemolysis, flu-like symptoms, anemia, and fatigue. (Gary L. Davis. Gastroenterology 118:S104-S114, 2000).

Combination therapy with PEG-INTRON® (peginterferon alpha-2b) and REBETOL® (Ribavirin, USP) Capsules is available from Schering Corporation. REBETOL® (Schering Corporation) has also been approved in combination with INTRON® A (Interferon alpha-2b, recombinant, Schering Corporation). Roche's PEGASYS® (pegylated interferon alpha-2a) and COPEGUS® (ribavirin) are also approved for the treatment of HCV.

PCT Publication Nos. WO 99/59621, WO 00/37110, WO 01/81359, WO 02/32414 and WO 03/024461 by Schering Corporation disclose the use of pegylated interferon alpha

and ribavirin combination therapy for the treatment of HCV. PCT Publication Nos. WO 99/15194, WO 99/64016, and WO 00/24355 by Hoffmann-La Roche Inc also disclose the use of pegylated interferon alpha and ribavirin combination therapy for the treatment of HCV.

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Additional Methods to Treat Flaviviridae Infections

The development of new antiviral agents for flaviviridae infections, especially hepatitis C, is currently underway. Specific inhibitors of HCV-derived enzymes such as protease, helicase, and polymerase inhibitors are being developed. Drugs that inhibit other steps in HCV replication are also in development, for example, drugs that block production of HCV antigens from the RNA (IRES inhibitors), drugs that prevent the normal processing of HCV proteins (inhibitors of glycosylation), drugs that block entry of HCV into cells (by blocking its receptor) and nonspecific cytoprotective agents that block cell injury caused by the virus infection. Further, molecular approaches are also being developed to treat hepatitis C, for example, ribozymes, which are enzymes that break down specific viral RNA molecules, and antisense oligonucleotides, which are small complementary segments of DNA that bind to viral RNA and inhibit viral replication, are under investigation. A number of HCV treatments are reviewed by Bymock *et al.* in *Antiviral Chemistry & Chemotherapy*, 11:2; 79-95 (2000) and De Francesco et al. in *Antiviral Research*, 58: 1-16 (2003).

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Examples of classes of drugs that are being developed to treat Flaviviridae infections include:

(1) Protease inhibitors

Substrate-based NS3 protease inhibitors (Attwood et al., Antiviral peptide derivatives, PCT WO 98/22496, 1998; Attwood et al., Antiviral Chemistry and Chemotherapy 1999, 10, 259-273; Attwood et al., Preparation and use of amino acid derivatives as anti-viral agents, German Patent Pub. DE 19914474; Tung et al. Inhibitors of serine proteases, particularly hepatitis C virus NS3 protease, PCT WO 98/17679), including alphaketoamides and hydrazinoureas, and inhibitors that terminate in an electrophile such as a boronic acid or phosphonate (Llinas-Brunet et al, Hepatitis C inhibitor peptide analogues, PCT WO 99/07734) are being investigated.

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Non-substrate-based NS3 protease inhibitors such as 2,4,6-trihydroxy-3-nitro-benzamide derivatives (Sudo K. et al., Biochemical and Biophysical Research Communications, 1997, 238, 643-647; Sudo K. et al. Antiviral Chemistry and Chemotherapy, 1998, 9, 186), including RD3-4082 and RD3-4078, the former substituted

on the amide with a 14 carbon chain and the latter processing a *para*-phenoxyphenyl group are also being investigated.

Sch 68631, a phenanthrenequinone, is an HCV protease inhibitor (Chu M. et al., Tetrahedron Letters 37:7229-7232, 1996). In another example by the same authors, Sch 351633, isolated from the fungus Penicillium griseofulvum, was identified as a protease inhibitor (Chu M. et al., Bioorganic and Medicinal Chemistry Letters 9:1949-1952). Nanomolar potency against the HCV NS3 protease enzyme has been achieved by the design of selective inhibitors based on the macromolecule eglin c. Eglin c, isolated from leech, is a potent inhibitor of several serine proteases such as S. griseus proteases A and B, α-chymotrypsin, chymase and subtilisin. Qasim M.A. et al., Biochemistry 36:1598-1607, 1997.

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Several U.S. patents disclose protease inhibitors for the treatment of HCV. For example, U.S. Patent No. 6,004,933 to Spruce *et al.* discloses a class of cysteine protease inhibitors for inhibiting HCV endopeptidase 2. U.S. Patent No. 5,990,276 to Zhang *et al.* discloses synthetic inhibitors of hepatitis C virus NS3 protease. The inhibitor is a subsequence of a substrate of the NS3 protease or a substrate of the NS4A cofactor. The use of restriction enzymes to treat HCV is disclosed in U.S. Patent No. 5,538,865 to Reyes *et al.* Peptides as NS3 serine protease inhibitors of HCV are disclosed in WO 02/008251 to Corvas International, Inc, and WO 02/08187 and WO 02/008256 to Schering Corporation. HCV inhibitor tripeptides are disclosed in US Patent Nos. 6,534,523, 6,410,531, and 6,420,380 to Boehringer Ingelheim and WO 02/060926 to Bristol Myers Squibb. Diaryl peptides as NS3 serine protease inhibitors of HCV are disclosed in WO 02/48172 to Schering Corporation. Imidazoleidinones as NS3 serine protease inhibitors of HCV are disclosed in WO 02/48175 to Bristol Myers Squibb. WO 98/17679 to Vertex Pharmaceuticals and WO 02/48116 to Bristol Myers Squibb also disclose HCV protease inhibitors.

- (2) Thiazolidine derivatives which show relevant inhibition in a reverse-phase HPLC assay with an NS3/4A fusion protein and NS5A/5B substrate (Sudo K. et al., Antiviral Research, 1996, 32, 9-18), especially compound RD-1-6250, possessing a fused cinnamoyl moiety substituted with a long alkyl chain, RD4 6205 and RD4 6193;
- (3) Thiazolidines and benzanilides identified in Kakiuchi N. et al. J. EBS Letters 421, 217-220; Takeshita N. et al. Analytical Biochemistry, 1997, 247, 242-246;

(4) A phenan-threnequinone possessing activity against protease in a SDS-PAGE and autoradiography assay isolated from the fermentation culture broth of *Streptomyces* sp., Sch 68631 (Chu M. et al., Tetrahedron Letters, 1996, 37, 7229-7232), and Sch 351633, isolated from the fungus Penicillium griseofulvum, which demonstrates activity in a scintillation proximity assay (Chu M. et al., Bioorganic and Medicinal Chemistry Letters 9, 1949-1952);

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- (5) Helicase inhibitors (for example Diana G.D. et al., Compounds, compositions and methods for treatment of hepatitis C, U.S. Pat. No. 5,633,358; Diana G.D. et al., Piperidine derivatives, pharmaceutical compositions thereof and their use in the treatment of hepatitis C, PCT WO 97/36554);
- (6) Nucleotide polymerase inhibitors and gliotoxin (Ferrari R. et al. Journal of Virology, 1999, 73, 1649-1654), and the natural product cerulenin (Lohmann V. et al., Virology, 1998, 249, 108-118);
- (7) Antisense phosphorothioate oligodeoxynucleotides (S-ODN) complementary to sequence stretches in the 5' non-coding region (NCR) of the virus (Alt M. et al., Hepatology, 1995, 22, 707-717), or nucleotides 326-348 comprising the 3' end of the NCR and nucleotides 371-388 located in the core coding region of the HCV RNA (Alt M. et al., Archives of Virology, 1997, 142, 589-599; Galderisi U. et al., Journal of Cellular Physiology, 1999, 181, 251-257);
- (8) Inhibitors of IRES-dependent translation (Ikeda N et al., Agent for the prevention and treatment of hepatitis C, Japanese Patent Pub. JP-08268890; Kai Y. et al. Prevention and treatment of viral diseases, Japanese Patent Pub. JP-10101591);
- (9) Ribozymes, such as nuclease-resistant ribozymes (Maccjak, D. J. et al., Hepatology 1999, 30, abstract 995) and those disclosed in U.S. Patent No. 6,043,077 to Barber et al., and U.S. Patent Nos. 5,869,253 and 5,610,054 to Draper et al.; and
- (10) Nucleoside analogs have also been developed for the treatment of Flaviviridae infections.

Idenix Pharmaceuticals discloses the use of branched nucleosides in the treatment of flaviviruses (including HCV) and pestiviruses in International Publication Nos. WO 01/90121 and WO 01/92282. Specifically, a method for the treatment of hepatitis C infection (and flaviviruses and pestiviruses) in humans and other host animals is disclosed in the Idenix publications that includes administering an effective amount of a biologically active 1', 2', 3' or 4'-branched β-D or β-L nucleosides or a pharmaceutically acceptable salt

or derivative thereof, administered either alone or in combination with another antiviral agent, optionally in a pharmaceutically acceptable carrier.

Other patent applications disclosing the use of certain nucleoside analogs to treat hepatitis C virus include: PCT/CA00/01316 (WO 01/32153; filed November 3, 2000) and PCT/CA01/00197 (WO 01/60315; filed February 19, 2001) filed by BioChem Pharma, Inc. (now Shire Biochem, Inc.); PCT/US02/01531 (WO 02/057425; filed January 18, 2002) and PCT/US02/03086 (WO 02/057287; filed January 18, 2002) filed by Merck & Co., Inc., PCT/EP01/09633 (WO 02/18404; published August 21, 2001) filed by Roche, and PCT Publication Nos. WO 01/79246 (filed April 13, 2001), WO 02/32920 (filed October 18, 2001) and WO 02/48165 by Pharmasset, Ltd.

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PCT Publication No. WO 99/43691 to Emory University, entitled "2'-Fluoronucleosides" discloses the use of certain 2'-fluoronucleosides to treat HCV.

Eldrup et al. (Oral Session V, Hepatitis C Virus, Flaviviridae; 16th International Conference on Antiviral Research (April 27, 2003, Savannah, Ga.)) described the structure activity relationship of 2'-modified nucleosides for inhibition of HCV.

Bhat et al. (Oral Session V, Hepatitis C Virus, Flaviviridae, 2003 (Oral Session V, Hepatitis C Virus, Flaviviridae; 16th International Conference on Antiviral Research (April 27, 2003, Savannah, Ga.); p A75) describe the synthesis and pharmacokinetic properties of nucleoside analogues as possible inhibitors of HCV RNA replication. The authors report that 2'-modified nucleosides demonstrate potent inhibitory activity in cell-based replicon assays.

Olsen et al. (Oral Session V, Hepatitis C Virus, Flaviviridae; 16th International Conference on Antiviral Research (April 27, 2003, Savannah, Ga.) p A76) also described the effects of the 2'-modified nucleosides on HCV RNA replication.

(11) Other miscellaneous compounds including 1-amino-alkylcyclohexanes (U.S. Patent No. 6,034,134 to Gold *et al.*), alkyl lipids (U.S. Pat. No. 5,922,757 to Chojkier *et al.*), vitamin E and other antioxidants (U.S. Pat. No. 5,922,757 to Chojkier *et al.*), squalene, amantadine, bile acids (U.S. Pat. No. 5,846,964 to Ozeki *et al.*), N-(phosphonoacetyl)-L-aspartic acid, (U.S. Pat. No. 5,830,905 to Diana *et al.*), benzenedicarboxamides (U.S. Pat. No. 5,633,388 to Diana *et al.*), polyadenylic acid derivatives (U.S. Pat. No. 5,496,546 to Wang *et al.*), 2',3'-dideoxyinosine (U.S. Pat. No. 5,026,687 to Yarchoan *et al.*), benzimidazoles (U.S. Pat. No. 5,891,874 to Colacino *et al.*), plant extracts (U.S. Patent No. 5,837,257 to Tsai *et al.*, U.S. Patent No. 5,725,859 to Omer *et al.*, and U.S. Patent No. 6,056,961), and piperidenes (U.S. Patent No. 5,830,905 to Diana *et al.*).

(12)Other compounds currently in preclinical or clinical development for treatment of hepatitis C virus include: Interleukin-10 by Schering-Plough, IP-501 by Interneuron, Merimebodib (VX-497) by Vertex, AMANTADINE® (Symmetrel) by Endo Labs Solvay, HEPTAZYME® by RPI, IDN-6556 by Idun Pharma., XTL-002 by XTL., HCV/MF59 by Chiron, CIVACIR® (Hepatitis C Immune Globulin) by NABI, LEVOVIRIN® by ICN/Ribapharm, VIRAMIDINE® by ICN/Ribapharm, ZADAXIN® (thymosin alpha-1) by Sci Clone, thymosin plus pegylated interferon by Sci Clone, CEPLENE® (histamine dihydrochloride) by Maxim, VX 950 / LY 570310 by Vertex/Eli Lilly, ISIS 14803 by Isis Pharmaceutical/Elan, IDN-6556 by Idun Pharmaceuticals, Inc., JTK 003 by AKROS Pharma, BILN-2061 by Boehringer Ingelheim, CellCept (mycophenolate mofetil) by Roche, T67, a β-tubulin inhibitor, by Tularik, a therapeutic vaccine directed to E2 by Innogenetics, FK788 by Fujisawa Healthcare, Inc., IdB 1016 (Siliphos, oral silybin-phosphatdylcholine phytosome), RNA replication inhibitors (VP50406) by ViroPharma/Wyeth, therapeutic vaccine by Intercell, therapeutic vaccine by Epimmune/Genencor, IRES inhibitor by Anadys, ANA 245 and ANA 246 by Anadys, immunotherapy (Therapore) by Avant, protease inhibitor by Corvas/SChering, helicase inhibitor by Vertex, fusion inhibitor by Trimeris, T cell therapy by CellExSys, polymerase inhibitor by Biocryst, targeted RNA chemistry by PTC Therapeutics, Dication by Immtech, Int., protease inhibitor by Agouron, protease inhibitor by Chiron/Medivir, antisense therapy by AVI BioPharma, antisense therapy by Hybridon, hemopurifier by Aethlon Medical, therapeutic vaccine by Merix, protease inhibitor by Bristol-Myers Squibb/Axys, Chron-VacC, a therapeutic vaccine, by Tripep, UT 231B by United Therapeutics, protease, helicase and polymerase inhibitors by Genelabs Technologies, IRES inhibitors by Immusol, R803 by Rigel Pharmaceuticals, INFERGEN® (interferon alphacon-1) by InterMune, OMNIFERON® (natural interferon) by Viragen, ALBUFERON® by Human Genome Sciences, REBIF® (interferon beta-1a) by Ares-Serono, Omega Interferon by BioMedicine, Oral Interferon Alpha by Amarillo Biosciences, interferon gamma, interferon tau, and Interferon gamma- 1b by InterMune.

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Nucleoside prodrugs have been previously described for the treatment of other forms of hepatitis. WO 00/09531 (filed August 10, 1999) and WO 01/96353 (filed June 15, 2001) to Idenix Pharmaceuticals discloses 2'-deoxy-β-L-nucleosides and their 3'-prodrugs for the treatment of HBV. U.S. Patent No. 4,957,924 to Beauchamp discloses various therapeutic esters of acyclovir.

In light of the fact that HCV infection has reached epidemic levels worldwide, and has tragic effects on the infected patient, there remains a strong need to provide new effective pharmaceutical agents to treat hepatitis C that have low toxicity to the host.

Further, given the rising threat of other flaviviridae infections, there remains a strong need to provide new effective pharmaceutical agents that have low toxicity to the host.

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Therefore, it is an object of the present invention to provide a compound, method and composition for the treatment of a host infected with hepatitis C virus.

It is another object of the present invention to provide a method and composition generally for the treatment of patients infected with *pestiviruses*, *flaviviruses*, or *hepaciviruses*.

SUMMARY OF THE INVENTION

2' and 3'-prodrugs of 1', 2', 3' or 4'-branched β-D or β-L nucleosides, or their pharmaceutically acceptable salts or pharmaceutically acceptable formulations containing these compounds are useful in the prevention and treatment of *Flaviviridae* infections and other related conditions such as anti- *Flaviviridae* antibody positive and *Flaviviridae* - positive conditions, chronic liver inflammation caused by HCV, cirrhosis, acute hepatitis, fulminant hepatitis, chronic persistent hepatitis, and fatigue. These compounds or formulations can also be used prophylactically to prevent or retard the progression of clinical illness in individuals who are anti-*Flaviviridae* antibody or *Flaviviridae*-antigen positive or who have been exposed to a *Flaviviridae*.

A method for the treatment of a *Flaviviridae* viral infection in a host, including a human, is also disclosed that includes administering an effective amount of a 2' or 3'-prodrug of a biologically active 1', 2', 3' or 4'-branched β -D or β -L nucleoside or a pharmaceutically acceptable salt thereof, administered either alone or in combination or alternation with another anti-*Flaviviridae* agent, optionally in a pharmaceutically acceptable carrier. The term 2'-prodrug, as used herein, refers to a 1', 2', 3' or 4'-branched β -D or β -L nucleoside that has a biologically cleavable moiety at the 2'-position, including, but not limited to acyl, and in one embodiment, a natural or synthetic D or L amino acid, preferably an L-amino acid. The term 3'-prodrug, as used herein, refers to a 1', 2', 3' or 4'-branched β -D or β -L nucleoside that has a biologically cleavable moiety at the 3'-position, including, but not limited to acyl, and in one embodiment, a natural or synthetic D or L amino acid, preferably an L-amino acid.

Pharmaceutically acceptable salts include tosylate, methanesulfonate, acetate, citrate, malonate, tartarate, succinate, benzoate, ascorbate, α -ketoglutarate, and α -glycerophosphate, formate, fumarate, propionate, glycolate, lactate, pyruvate, oxalate, maleate, salicyate, sulfate, sulfonate, nitrate, bicarbonate, hydrobromate, hydrobromide, hydroiodide, carbonate, and phosphoric acid salts. A particularly preferred embodiment is the mono or dihydrochloride salt.

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In one embodiment, the 1', 2', 3' or 4'-branched β -D or β -L nucleoside includes biologically cleavable moieties at the 2' and/or 5' positions. Preferred moieties are natural or synthetic D or L amino acid esters, including D or L-valyl, though preferably L-amino acid esters, such as L-valyl, and alkyl esters including acetyl. Therefore, this invention specifically includes 2'-D or L-amino acid ester and 2',5'-D or L-diamino acid ester, preferably L-amino acid ester, of 1', 2', 3' or 4'-branched β-D or β-L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC₅₀ of less than 15 micromolar, and even more preferably less than 10 micromolar; 2'-(alkyl or aryl) ester or 2',5'-di(alkyl or aryl) ester of 1', 2', 3' or 4'-branched β-D or β-L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC₅₀ of less than 10 or 15 micromolar; and prodrugs of 2',5'-diesters of 1', 2', 3' or 4'-branched β-D or β-L nucleosides wherein (i) the 2' ester is a natural or synthetic D or L-amino acid ester, though preferably an L-amino acid ester, and the 5'-ester is an alkyl or aryl ester; (ii) both esters are independently natural or synthetic D or L-amino acid ester, though preferably both are L-amino acid esters; (iii) both esters are independently alkyl or aryl esters; and (iv) the 2' ester is independently an alkyl or aryl ester and the 5'-ester is a natural or synthetic D or L-amino acid ester, though preferably an L-amino acid ester, wherein the parent drug optionally has an EC₅₀ of less than 10 or 15 micromolar.

Examples of prodrugs falling within the invention are 2'-D or L-valine ester of β -D-2',6-dimethyl-cytidine; 2'-L-valine ester of β -D-2',6-dimethyl-thymidine; 2'-L-valine ester of β -D-2',8-dimethyl-adenosine; 2'-L-valine ester of β -D-2',6-dimethyl-5-fluorocytidine; 2'-L-valine ester of β -D-2',6-dimethyl-uridine; 2'-acetyl ester of β -D-2',6-dimethyl-cytidine; 2'-acetyl ester of β -D-2',6-dimethyl-thymidine; 2'-acetyl ester of β -D-2',8-dimethyl-adenosine; 2'-acetyl ester of β -D-2',8-dimethyl-guanosine; 2'-acetyl ester of β -D-2',6-dimethyl-5-fluoro-cytidine; and 2'-esters of β -D-2',6-dimethyl-(cytidine, 5-fluorocytidine, uridine or thymidine) or 2'-esters of β -D-2',6-dimethyl-(cytidine, 5-fluorocytidine, uridine or thymidine)

2',8-dimethyl-(guanosine, adenosine or inosine) wherein (i) the 2' ester is an amino acid ester; or (ii) the 2' ester is an alkyl or aryl ester.

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Additional examples of prodrugs falling within the invention are 2',5'-L-divaline ester of β -D-2',6-dimethyl-cytidine (dival-2',6-diMe-L-dC); 2',5'-L-divaline ester of β -D-2',6-dimethyl-thymidine; 2',5'-L-divaline ester of β -D-2',8-dimethyl-guanosine; 2',5'-L-divaline ester of β -D-2',6-dimethyl-5-fluoro-cytidine; 2',5'-L-divaline ester of β -D-2',6-dimethyl-cytidine; 2',5'-diacetyl ester of β -D-2',6-dimethyl-thymidine; 2',5'-diacetyl ester of β -D-2',8-dimethyl-guanosine; 2',5'-diacetyl ester of β -D-2',8-dimethyl-guanosine; 2',5'-diacetyl ester of β -D-2',6-dimethyl-(cytidine, 5-fluorocytidine, uridine or thymidine) or 2',5'-diesters of β -D-2',8-dimethyl-(guanosine, adenosine or inosine) wherein (i) the 2' ester is an amino acid ester and the 5'-ester is an alkyl or aryl esters; (ii) both esters are amino acid esters; (iii) both esters are independently alkyl or aryl esters; or (iv) the 2' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester.

In another embodiment, the 1', 2', 3' or 4'-branched β-D or β-L nucleoside 3'prodrug includes biologically cleavable moieties at the 3' and/or 5' positions. Preferred moieties are natural or synthetic D or L amino acid esters, such as valyl, though preferably L-amino acids, such as L-valyl, and alkyl esters including acetyl. Therefore, this invention specifically includes 3'-L-amino acid ester and 3',5'-L-diamino acid ester of 1', 2', 3' or 4'branched β-D or β-L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC₅₀ of less than 15 micromolar, and even more preferably less than 10 micromolar; 3'-(alkyl or aryl) ester or 3',5'-L-di(alkyl or aryl) ester of 1', 2', 3' or 4'-branched β-D or β-L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC₅₀ of less than 10 or 15 micromolar; and prodrugs of 3',5'-diesters of 1', 2', 3' or 4'-branched β -D or β -L nucleosides wherein (i) the 3' ester is a natural or synthetic D or L amino acid ester and the 5'-ester is an alkyl or aryl ester; (ii) both esters are natural or synthetic D or L-amino acid esters; (iii) both esters are independently alkyl or aryl esters; and (iv) the 3' ester is independently an alkyl or aryl ester and the 5'-ester is a natural or synthetic D or L-amino acid ester, wherein the parent drug optionally has an EC₅₀ of less than 10 or 15 micromolar.

Examples of prodrugs falling within the invention are 3'-L-valine ester of β -D-2',6-dimethyl-cytidine; 3'-L-valine ester of β -D-2',6-dimethyl-thymidine; 3'-L-valine ester of β -

D-2',8-dimethyl-adenosine; 3'-L-valine ester of β -D-2',8-dimethyl-guanosine; 3'-L-valine ester of β -D-2',6-dimethyl-5-fluorocytidine; 3'-L-valine ester of β -D-2',6-dimethyl-uridine; 3'-acetyl ester of β -D-2',6-dimethyl-cytidine; 3'-acetyl ester of β -D-2',6-dimethyl-thymidine; 3'-acetyl ester of β -D-2',8-dimethyl-guanosine; 3'-acetyl ester of β -D-2',8-dimethyl-guanosine; 3'-acetyl ester of β -D-2',6-dimethyl-5-fluoro-cytidine; and 3'-esters of β -D-2',6-dimethyl-(cytidine, 5-fluorocytidine, uridine or thymidine) or 3'-esters of β -D-2',8-dimethyl-(guanosine, adenosine or inosine) wherein (i) the 3' ester is an amino acid ester; or (ii) the 3' ester is an alkyl or aryl ester.

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Additional examples of prodrugs falling within the invention are 3',5'-L-divaline ester of β -D-2',6-dimethyl-cytidine (dival-2',6-diMe-L-dC); 3',5'-L-divaline ester of β -D-2',6-dimethyl-thymidine; 3',5'-L-divaline ester of β -D-2',8-dimethyl-guanosine; 3',5'-L-divaline ester of β -D-2',6-dimethyl-5-fluoro-cytidine; 3',5'-L-divaline ester of β -D-2',6-dimethyl-uridine; 3',5'-diacetyl ester of β -D-2',6-dimethyl-cytidine; 3',5'-diacetyl ester of β -D-2',6-dimethyl-thymidine; 3',5'-diacetyl ester of β -D-2',8-dimethyl-guanosine; 3',5'-diacetyl ester of β -D-2',8-dimethyl-guanosine; 3',5'-diacetyl ester of β -D-2',6-dimethyl-(cytidine, 5-fluorocytidine, uridine or thymidine) or 3',5'-diesters of β -D-2',8-dimethyl-(guanosine, adenosine or inosine) wherein (i) the 3' ester is an amino acid ester and the 5'-ester is an alkyl or aryl esters; or (iv) the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester.

In another embodiment, the prodrug of 1', 2', 3' or 4'-branched β -D or β -L nucleoside includes biologically cleavable moieties at the 2', 3' and/or 5' positions. Preferred moieties are natural or synthetic D or L amino acid esters, including D or L-valyl, though preferably L-amino acid esters, such as L-valyl, and alkyl esters including acetyl. Therefore, this invention specifically includes 2',3'-L or D-diamino acid ester and 2',3',5'-L or D-triamino acid ester of 1', 2', 3' or 4'-branched β -D or β -L nucleosides, preferrably L-amino acid, with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC₅₀ of less than 15 micromolar, and even more preferably less than 10 micromolar; 2',3'-di(alkyl or aryl) ester or 2',3',5'-L-tri(alkyl or aryl) ester of 1', 2', 3' or 4'-branched β -D or β -L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC₅₀ of less than 10 or 15 micromolar; and prodrugs of 2',3'-diesters of 1', 2', 3' or 4'-branched β -D or β -L nucleosides wherein (i) the 2' ester is an

amino acid ester and the 3'-ester is an alkyl or aryl ester; (ii) both esters are amino acid esters; (iii) both esters are independently alkyl or aryl esters; and (iv) the 2' ester is independently an alkyl or aryl ester and the 3'-ester is an amino acid ester, wherein the parent drug optionally has an EC₅₀ of less than 10 or 15 micromolar. Further, 2',3',5'-triesters of 1', 2', 3' or 4'-branched β -D or β -L nucleosides wherein (i) all three esters are amino acid esters; (ii) all three esters are independently alkyl or aryl esters; (iii) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an alkyl or aryl ester; (iv) the 2' ester is an alkyl or aryl ester, the 3' ester is an alkyl or aryl ester, the 3' ester is an alkyl or aryl ester, the 3' ester is an alkyl or aryl ester, the 3' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester; (vi) the 2' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester; (vii) the 2' ester is an alkyl or aryl ester; and (viii) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester; wherein the parent drug optionally has an EC₅₀ of less than 10 or 15 micromolar.

Examples of prodrugs falling within the invention include 2',3'-L-divaline ester of β -D-2',6-dimethyl-cytidine (dival-2',6-diMe-L-dC); 2',3'-L-divaline ester of β -D-2',6-dimethyl-thymidine; 2',3'-L-divaline ester of β -D-2',8-dimethyl-guanosine; 2',3'-L-divaline ester of β -D-2',6-dimethyl-guanosine; 2',3'-L-divaline ester of β -D-2',6-dimethyl-uridine; 2',3'-diacetyl ester of β -D-2',6-dimethyl-cytidine; 2',3'-diacetyl ester of β -D-2',6-dimethyl-thymidine; 2',3'-diacetyl ester of β -D-2',8-dimethyl-guanosine; 2',3'-diacetyl ester of β -D-2',8-dimethyl-guanosine; 2',3'-diacetyl ester of β -D-2',6-dimethyl-(cytidine, 5-fluorocytidine, uridine or thymidine) or 2',3'-diesters of β -D-2',8-dimethyl-(guanosine, adenosine or inosine) wherein (i) the 2' ester is an amino acid ester and the 3'-ester is an alkyl or aryl esters; or (iv) the 2' ester is an alkyl or aryl ester and the 3'-ester is an amino acid ester.

Additional examples of prodrugs falling within the invention include 2',3',5'-L-trivaline ester of β -D-2',6-dimethyl-cytidine (trival-2',6-diMe-L-dC); 2',3',5'-L-trivaline ester of β -D-2',6-dimethyl-thymidine; 2',3',5'-L-trivaline ester of β -D-2',8-dimethyl-guanosine; 2',3',5'-L-trivaline ester of β -D-2',6-dimethyl-5-fluoro-cytidine; 2',3',5'-L-trivaline ester of β -D-2',6-dimethyl-5-fluoro-cytidine; 2',3',5'-L-trivaline ester of β -D-2',6-dimethyl-5-fluoro-cytidine; 2',3',5'-L-trivaline

dimethyl-uridine; 2',3',5'-triacetyl ester of β -D-2',6-dimethyl-cytidine; 2',3',5'-triacetyl ester of β -D-2',6-dimethyl-thymidine; 2',3',5'-triacetyl ester of β -D-2',8-dimethyl-adenosine; 2',3',5'-triacetyl ester of β -D-2',8-dimethyl-guanosine; 2',3',5'-triacetyl ester of β -D-2',6-dimethyl-5-fluoro-cytidine; and 2',3',5'-triesters of β -D-2',6-dimethyl-(cytidine, 5-fluorocytidine, uridine or thymidine) and 2',3',5'-triesters of β -D-2',8-dimethyl-(guanosine, adenosine or inosine) wherein (i) all three esters are amino acid esters; (ii) all three esters are independently alkyl or aryl esters; (iii) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester; (iv) the 2' ester is an alkyl or aryl ester; (v) the 2' ester is an alkyl or aryl ester; (v) the 2' ester is an alkyl or aryl ester, the 3' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester, and (viii) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester; and (viii) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester, the 3' ester is an alkyl or aryl ester; and (viii) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester.

In a first principal embodiment, a compound of Formula (I) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (I):

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or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

R¹, R² and R³ are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or

more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which is capable of providing a compound wherein R¹, R² and/or R³ is independently H or phosphate (including mono-, di- or triphosphate), for example when administered *in vivo*; wherein in one embodiment R² and/or R³ is not phosphate (including mono-, di- or triphosphate or a stabilized phosphate prodrug);

wherein at least one of R² and R³ is not hydrogen; and wherein:

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Y¹ is hydrogen, bromo, chloro, fluoro, iodo, CN, OH, OR⁴, NH₂, NHR⁴, NR⁴R⁵, SH or SR⁴;

X¹ is a straight chained, branched or cyclic optionally substituted alkyl, CH₃, CF₃, C(Y³)₃,

2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, CH₂OH, optionally substituted alkenyl, optionally substituted alkynyl, COOH, COOR⁴, COO-alkyl, COO-aryl, CO-Oalkoxyalkyl, CONH₂, CONHR⁴, CON(R⁴)₂, chloro, bromo, fluoro, iodo, CN, N₃, OH, OR⁴, NH₂, NHR⁴, NR⁴R⁵, SH or SR⁵; and

- 15 X² is H, straight chained, branched or cyclic optionally substituted alkyl, CH₃, CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, CH₂OH, optionally substituted alkenyl, optionally substituted alkynyl, COOH, COOR⁴, COO-alkyl, COO-aryl, COOalkoxyalkyl, CONH₂, CONHR⁴, CON(R⁴)₂, chloro, bromo, fluoro, iodo, CN, N₃, OH, OR⁴, NH₂, NHR⁴, NR⁴R⁵, SH or SR⁵; and
- wherein each Y³ is independently H, F, Cl, Br or I; each R⁴ and R⁵ is independently hydrogen, acyl (including lower acyl), alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl), lower alkyl, alkenyl, alkynyl or cycloalkyl.

In the embodiments described herein, R¹, R² and/or R³ may be a pharmaceutically acceptable leaving group which is capable of providing a compound wherein R¹, R² and/or R³ is independently H or phosphate (including mono-, di- or triphosphate), for example when administered *in vivo*.

In a second principal embodiment, a compound of Formula (II) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (II):

$$\begin{array}{c} X^2 \\ X^1 \\ X^1 \\ X^1 \\ X^2 \\ X^1 \\ X^2 \\ X^2 \\ X^3 \\ X^4 \\ X^2 \\ X^3 \\ X^4 \\ X^4 \\ X^4 \\ X^5 \\ X^6 \\ X^7 \\ X^8 \\$$

or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

 R^1 , R^2 , R^3 , R^4 , R^5 , Y^1 , Y^3 , X^1 and X^2 are as defined above.

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In a third principal embodiment, a compound of Formula (III), (IV) or (V), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric, or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (III), (IV) or (V):

Base
$$R^{1}O$$
 X R^{6} $R^{1}O$ X^{*} R^{6} $R^{1}O$ $R^{2}O$ R^{7} R^{7} $R^{1}O$ $R^{2}O$ R^{7} R^{7} R^{7} $R^{1}O$ $R^{2}O$ R^{7}

or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

20 Base is selected from the group consisting of

$$(A)$$

$$(B)$$

$$X^{2}$$

$$X^{3}$$

$$Y^{1}$$

$$Y^{2}$$

$$X^{3}$$

$$Y^{2}$$

$$X^{3}$$

$$Y^{2}$$

$$X^{3}$$

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$$Y^{4}$$

$$Y^{5}$$

$$Y^{4}$$

$$Y^{5}$$

$$Y^{4}$$

$$Y^{5}$$

$$(BA) \qquad (BB)$$

$$X^{2} \qquad W^{1} \qquad X^{2} \qquad W^{1} \qquad W^{1} \qquad W^{2} \qquad W^{2}$$

OH OH OH OH
$$X^2$$
 Y^1 Y^2 Y^2 Y^1 Y^2 Y^2 Y^1 Y^2 Y^2 Y^2 Y^3 Y^4 Y^4

R¹, R² R³, R⁴, and R⁵, are as defined above;

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each W^1 , W^2 , W^3 and W^4 is independently N, CH, CF, CI, CBr, CCl, CCN, CCH₃, CCF₃, CCH₂CH₃, CC(O)NH₂, CC(O)NHR⁴, CC(O)N(R⁴)₂, CC(O)OH, CC(O)OR⁴ or CX³; each W^* is independently O, S, NH or NR⁴;

 $X \text{ is O, S, SO}_2, CH_2, CH_2OH, CHF, CF}_2, C(Y^3)_2, CHCN, C(CN)_2, CHR^4 \text{ or } C(R^4)_2;\\$

X* is CH, CF, CY³ or CR⁴; X² is H, straight chained, branched or cyclic optionally substituted alkyl, CH₃, CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, CH₂OH, optionally substituted alkenyl, optionally substituted alkynyl, COOH, COOR4, COO-alkyl, COO-aryl, CO-Oalkoxyalkyl, CONH₂, CONHR⁴, CON(R⁴)₂, chloro, bromo, fluoro, iodo, CN, N₃, OH, 5 OR⁴, NH₂, NHR⁴, NR⁴R⁵, SH or SR⁵; each X³ is independently a straight chained, branched or cyclic optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, 10 Br-vinyl, optionally substituted alkynyl, haloalkynyl, N₃, CN, -C(O)OH, -C(O)OR⁴, -C(O)O(lower alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂,-C(O)N(lower alkyl)₂, OH, OR⁴, -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), -O(alkynyl), -O(aralkyl), -O(cycloalkyl), -S(acyl), -S(lower acyl), -S(R⁴), -S(lower alkyl), -S(alkenyl), -S(alkynyl), -S(aralkyl), -S(cycloalkyl), chloro, bromo, fluoro, 15 iodo, NH₂, -NH(lower alkyl), -NHR⁴, -NR⁴R⁵, -NH(acyl), -N(lower alkyl)₂, -NH(alkenyl), -NH(alkynyl), -NH(aralkyl), -NH(cycloalkyl), -N(acyl)₂; each Y is independently selected from the group consisting of H, optionally substituted lower alkyl, cycloalkyl, alkenyl, alkynyl, CH2OH, CH2NH2, CH2NHCH3, CH2N(CH3)2, 20 CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃ CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONR₂, and (CH₂)_mCONHR; wherein R is H, alkyl or acyl; Y¹ is hydrogen, bromo, chloro, fluoro, iodo, CN, OH, OR⁴, NH₂, NHR⁴, NR⁴R⁵, SH or SR⁴; each Y² is independently O. S. NH or NR⁴: each Y³ is independently H, F, Cl, Br or I; 25 wherein for Base (B), W⁴ cannot be CH if W¹, W² and W³ are N; wherein for Base (E), (F), (K), (L), (W) and (X), W⁴ cannot be CH if W¹ is N; each R⁶ is independently an optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, 30 CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl),

-CH₂C(O)NHR⁴,

-CH₂C(O)NH₂,

-CH₂C(O)NH(lower

 $-CH_2C(O)N(R^4)_2$

alkyl),

alkyl), $-(CH_2)_mC(O)NH_2$, $-(CH_2)_mC(O)NHR^4$, $-(CH_2)_mC(O)NH(lower alkyl)$, $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower alkyl)_2$, -C(O)OH, $-C(O)OR^4$, -C(O)O(lower alkyl), $-C(O)NH_2$, $-C(O)NHR^4$, -C(O)NH(lower alkyl), $-C(O)N(R^4)_2$, $-C(O)N(lower alkyl)_2$ or cyano;

each R⁷ is independently OH, OR², optionally substituted alkyl (including lower alkyl). CH₃, CH₂CN, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl), -CH₂C(O)SH, -CH₂C(O)SR⁴, -CH₂C(O)S(lower alkyl), -CH₂C(O)NH₂, -CH₂C(O)NHR⁴, -CH₂C(O)NH(lower alkyl), -CH₂C(O)N(lower alkyl)₂, -CH₂C(O)N(R⁴)₂, $-(CH_2)_mC(O)OH$, -(CH₂)_mC(O)OR⁴ $-(CH_2)_mC(O)O(lower alkyl)$, $-(CH_2)_mC(O)SH$, $-(CH_2)_mC(O)SR^4$, $-(CH_2)_mC(O)S(lower alkyl)$ -(CH₂)_mC(O)NHR⁴,alkyl), $-(CH_2)_mC(O)NH_2$ -(CH₂)_mC(O)NH(lower $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower alkyl)_2$, -C(O)OH, $-C(O)OR^4$, $-C(O)O(lower alkyl)_2$ alkyl), -C(O)SH, -C(O)SR⁴, -C(O)S(lower alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂, -C(O)N(lower alkyl)₂, -O(acyl), -O(lower acyl), -O(R⁴), -O(alkyl), -O(lower alkyl), -O(alkenyl), -O(alkynyl), -O(aralkyl), -O(cycloalkyl), -S(acyl), -S(lower acyl), -S(R⁴), -S(lower alkyl), -S(alkenyl), -S(alkynyl), -S(aralkyl), -S(cycloalkyl), NO₂, NH₂, -NH(lower alkyl), -NHR⁴, -NR⁴R⁵, -NH(acyl), -N(lower alkyl)₂, -NH(alkenyl), -NH(alkynyl), -NH(aralkyl), -NH(cycloalkyl), -N(acyl)2, azido, cyano, SCN, OCN, NCO or halo (fluoro, chloro, bromo, iodo);

alternatively, R⁶ and R⁷ can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); and

ach m is independently 0, 1 or 2.

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In a fourth principal embodiment, a compound of Formula (VI) or (VII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or (VII):

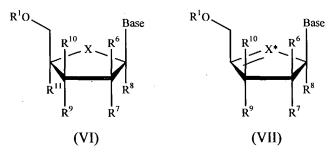
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or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

Base, R, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, Y, Y¹, Y², Y³, W¹, W², W³, W⁴, W⁴, X, X*, X¹, X², and X^3 are as defined above;

wherein, in one embodiment, R⁸ in Formula (VI) is -OH or -NH₂ only when X is carbon; and wherein;

each R⁸ and R¹¹ is independently hydrogen, an optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl), -CH₂C(O)NH(lower -CH₂C(O)NHR⁴, alkyl), $-CH_2C(O)N(R^4)_2$ -CH₂C(O)NH₂, $-CH_2C(O)N(lower alkyl)_2$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)OR^4$, $-(CH_2)_mC(O)O(lower alkyl)_2$ -(CH₂)_mC(O)NHR⁴, $-(CH_2)_mC(O)NH_2$ -(CH₂)_mC(O)NH(lower $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower alkyl)_2$, -C(O)OH, $-C(O)OR^4$, $-C(O)O(lower alkyl)_2$ alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂, -C(O)N(lower alkyl)₂, cyano, NH-acyl or N(acyl)2;

each R⁹ and R¹⁰ are independently hydrogen, OH, OR², optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably

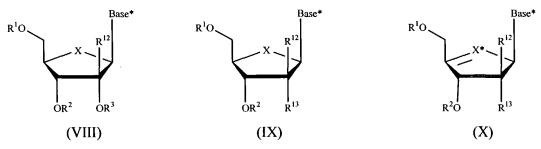
a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl), -CH₂C(O)SH, -CH₂C(O)SR⁴, -CH₂C(O)S(lower alkyl), -CH₂C(O)NH₂, -CH₂C(O)NHR⁴, -CH₂C(O)NH(lower alkyl), $-(CH_2)_mC(O)OR^4$. $-CH_2C(O)N(R^4)_2$ $-CH_2C(O)N(lower alkyl)_2$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)O(lower alkyl)$, $-(CH_2)_mC(O)SH$, $-(CH_2)_mC(O)SR^4$, $-(CH_2)_mC(O)S(lower alkyl)$ $-(CH_2)_mC(O)NH_2$ -(CH₂)_mC(O)NHR⁴,-(CH₂)_mC(O)NH(lower $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower alkyl)_2$, -C(O)OH, $-C(O)OR^4$, $-C(O)O(lower alkyl)_2$ alkyl), -C(O)SH, -C(O)SR⁴, -C(O)S(lower alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂, -C(O)N(lower alkyl)₂, -O(acyl), -O(lower acyl), -O(R⁴), -O(alkyl), -O(lower alkyl), -O(alkenyl), -O(alkynyl), -O(aralkyl), -O(cycloalkyl), -S(acyl), -S(lower acyl), -S(R⁴), -S(lower alkyl), -S(alkenyl), -S(alkynyl), -S(aralkyl), -S(cycloalkyl), NO₂, NH₂, -NH(lower alkyl), -NHR⁴, -NR⁴R⁵, -NH(acyl), -N(lower alkyl)₂, -NH(alkenyl), -NH(alkynyl), -NH(aralkyl), -NH(cycloalkyl), -N(acyl)₂, azido, cyano, SCN, OCN, NCO or halo (fluoro, chloro, bromo, iodo); each m is independently 0, 1 or 2; and alternatively, R⁶ and R¹⁰, R⁷ and R⁹, R⁸ and R⁷ or R⁹ and R¹¹ can come together to form a bridged compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); or alternatively, R⁶ and R⁷ or R⁹ and R¹⁰ can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N).

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In a fifth principal embodiment, a compound of Formula (VIII), (IX) or (X), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VIII), (IX) or (X):



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

 R^1 , R^2 , R^3 , R^4 , R^5 , X, Y^3 , and X^* are as defined above;

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Base* is a purine or pyrimidine base as defined herein;

each R^{12} is independently a substituted alkyl (including lower alkyl), CH_2CN , CH_2N_3 , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2OH , halogenated alkyl (including halogenated lower alkyl), CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2CI , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)_3$, substituted alkenyl, haloalkenyl (but not Br-vinyl), substituted alkynyl, haloalkynyl, $-CH_2C(O)OH$, $-CH_2C(O)OR^4$, $-CH_2C(O)O(lower alkyl)$, $-CH_2C(O)NH_2$, $-CH_2C(O)NHR^4$, $-CH_2C(O)NH(lower alkyl)$, $-CH_2C(O)N(R^4)_2$, $-CH_2C(O)N(lower alkyl)_2$, $-(CH_2)_mC(O)NHR^4$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)NH(lower alkyl)$, $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower alkyl)_2$, $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(R^4)_2$, $-(CO)N(lower alkyl)_2$, $-(CO)N(lower alkyl)_2$;

each R¹³ is independently substituted alkyl (including lower alkyl), CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, substituted alkenyl, haloalkenyl (but not Br-vinyl), substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl), -CH₂C(O)SH, -CH₂C(O)SR⁴, -CH₂C(O)S(lower alkyl), -CH₂C(O)NH₂,

-CH₂C(O)NHR⁴, -CH₂C(O)NH(lower alkyl), -CH₂C(O)N(R⁴)₂, -CH₂C(O)N(lower alkyl)₂, -(CH₂)_mC(O)OH, -(CH₂)_mC(O)OR⁴, -(CH₂)_mC(O)O(lower alkyl), -(CH₂)_mC(O)SH, -(CH₂)_mC(O)SR⁴, -(CH₂)_mC(O)S(lower alkyl), -(CH₂)_mC(O)NH₂, -(CH₂)_mC(O)NHR⁴, -(CH₂)_mC(O)NH(lower alkyl), -(CH₂)_mC(O)N(R⁴)₂, -(CH₂)_mC(O)N(lower alkyl)₂, -C(O)OH, -C(O)OR⁴, -C(O)SH, -C(O)SR⁴, -C(O)S(lower alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂, -C(O)N(lower alkyl)₂, -O(R⁴), -O(alkynyl), -O(aralkyl), -O(cycloalkyl), -S(acyl), -S(lower acyl), -S(R⁴), -S(lower alkyl), -S(alkenyl), -S(alkenyl), -NH(aralkyl), -NH(cycloalkyl), SCN, OCN, NCO or fluoro;

alternatively, R¹² and R¹³ can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); and each m is independently 0, 1 or 2.

In a sixth principal embodiment, a compound of Formula (XI) or (XII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (XI) or (XII):

or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

alternatively, Base*, is replaced with Base in Formulas (XI) and (XII); and

Base, Base*, R, R¹, R², R³, R⁴, R⁵, R¹², R¹³, Y, Y¹, Y², Y³, W*, W¹, W², W³, W⁴, X, X*, X¹, X^2 , and X^3 are as defined above;

wherein, in one embodiment, R^8 in Formula (XI) is -OH or $-NH_2$ only when X is carbon; and

wherein;

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each R⁸ and R¹¹ is independently hydrogen, an optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl), $-CH_2C(O)NH_2$ -CH₂C(O)NHR⁴, -CH₂C(O)NH(lower alkyl), -CH₂C(O)N(R⁴)₂, $-CH_2C(O)N(lower alkyl)_2$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)OR^4$, $-(CH_2)_mC(O)O(lower)$ -(CH₂)_mC(O)NH₂,-(CH₂)_mC(O)NHR⁴,-(CH₂)_mC(O)NH(lower alkyl), $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower alkyl)_2$, -C(O)OH, $-C(O)OR^4$, $-C(O)O(lower alkyl)_2$ alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂, -C(O)N(lower alkyl)₂, cyano, NH-acyl or N(acyl)2; each R⁹ and R¹⁰ are independently hydrogen, OH, OR², optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl), -CH₂C(O)SH, -CH₂C(O)SR⁴, -CH₂C(O)S(lower alkyl), -CH₂C(O)NH₂, -CH₂C(O)NHR⁴, -CH₂C(O)NH(lower alkyl), $-CH_2C(O)N(R^4)_2$ $-CH_2C(O)N(lower alkyl)_2$, $-(CH_2)_mC(O)OH$, -(CH₂)_mC(O)OR⁴, $-(CH_2)_mC(O)O(lower\ alkyl),\ -(CH_2)_mC(O)SH,\ -(CH_2)_mC(O)SR^4,\ -(CH_2)_mC(O)S(lower) -(CH_2)_mC(O)S(lo$ -(CH₂)_mC(O)NHR⁴,alkyl), $-(CH_2)_mC(O)NH_2$ $-(CH_2)_mC(O)NH(lower)$ $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower alkyl)_2$, -C(O)OH, $-C(O)OR^4$, -C(O)O(loweralkyl), -C(O)SH, -C(O)SR⁴, -C(O)S(lower alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂, -C(O)N(lower alkyl)₂, -O(acyl), -O(lower acyl), -O(R⁴), -O(alkyl), -O(lower alkyl), -O(alkenyl), -O(alkynyl), -O(aralkyl), -O(cycloalkyl), -S(acyl), -S(lower acyl), -S(R⁴), -S(lower alkyl), -S(alkenyl), -S(alkynyl), -S(aralkyl), -S(cycloalkyl), NO₂, NH₂, -NH(lower alkyl), -NHR⁴, -NR⁴R⁵, -NH(acyl), -N(lower alkyl)₂, -NH(alkenyl), -NH(alkynyl), -NH(aralkyl), -NH(cycloalkyl), -N(acyl)₂, azido, cyano, SCN, OCN, NCO or halo (fluoro, chloro, bromo, iodo); each m is independently 0, 1 or 2; and

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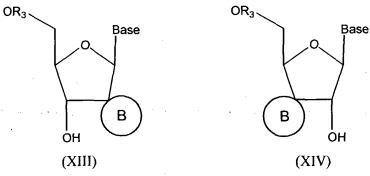
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alternatively, R⁸ and R¹³, R⁹ and R¹³, R⁹ and R¹¹ or R¹⁰ and R¹² can come together to form a bridged compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); or

alternatively, R¹² and R¹³ or R⁹ and R¹⁰ can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N).

In a particular aspect of the invention, a compound of Formula (XI) or (XII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (XI) or (XII):



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

R₃ is selected from the group consisting of H; mono-, di-, and tri-phosphate or a stabilized phosphate prodrug; acyl; a sulfonate ester; optionally substituted alkyl sulfonyl; optionally substituted arylsulfonyl; a lipid; an amino acid; a carbohydrate; a peptide; cholesterol; and a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R₃ is independently H, or mono-, di- or triphosphate;

X" is selected from the group consisting of one or more O, S, SO, SO₂, N, NH, NR and CH₂ wherein any of the aforementioned may be optionally substituted and may be variably positioned so as to form a 3-7 membered ring;

R is H, alkyl or acyl; and

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B indicates a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted

heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N);

Base is selected from the group consisting of:

and

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$$Q_{1}^{Q_{2} \cdot Q_{3}} Q_{5}$$

$$Q_{4}^{Q_{2} \cdot Q_{6}} R^{""}$$

$$Q_{5}^{W} Q_{6}$$

$$Q_{6}^{W} Q_{6}^{W} Q_{6}^{W}$$

$$(j)$$

wherein:

each R', R", R" and R" are independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aryl, O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

m is 0 or 1;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

Q₁ and Q₂ independently are N or C-R;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

In a second particular aspect of the invention, a compound of Formula (XV), (XVI) or (XVII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (XV), (XVI) or (XVII):

$$R_3O$$
 R_3O
 R_3O

or its pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

G and E independently are selected from the group consisting of CH₃, CH₂OH, CH₂F, CH₂N₃, CH₂CN, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONH₂, (CH₂)_mCONHR and N-acyl;

m is 0 or 1;

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R is H, alkyl or acyl; and

R', R", R", R", and R³ and Base are as defined for Formula (XIII).

Alternatively, for compound of Formula (XVII), at most one of G and E can further be hydrogen.

In a third particular aspect of the invention, a compound of Formula (XVIII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (XVIII):

or its pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein

M is selected from the group consisting of S, SO, and SO₂; and

R', R", R", R", and R₃ and Base are as defined for Formula (XIII).

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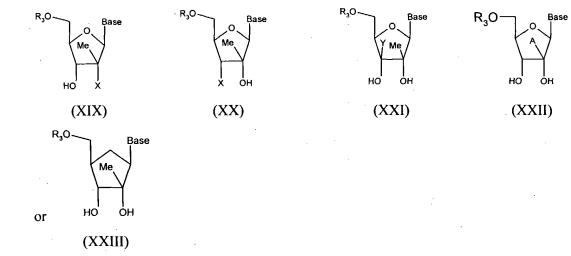
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In a fourth particular aspect of the invention, a compound of Formula (XIX), (XX), (XXI) (XXII) or (XXIII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (XIX), (XX), (XXII) or (XXIII):



or its pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof wherein:

A is selected from the group consisting of optionally substituted lower alkyl, cycloalkyl, alkenyl, alkynyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONR₂, and (CH₂)_mCONHR;

Y is selected from the group consisting of H, optionally substituted lower alkyl, cycloalkyl, alkenyl, alkynyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONR₂, and (CH₂)_mCONHR;

X is selected from the group consisting of -OH, optionally substituted alkyl, cycloalkyl, alkenyl, alkynyl, -O-alkyl, -O-alkenyl, -O-alkynyl, -O-aryl, -O-aralkyl, -O-cycloalkyl, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, NH-alkyl, NH-alkyl, NH-aryl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkyl, S-alkyl, S-aryl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃,

CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONH_R, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination;

m is 0 or 1;

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R is H, alkyl or acyl;

R₃ is selected from the group consisting of H; mono-, di-, and tri-phosphate or a stabilized phosphate prodrug; substituted or unsubstituted alkyl; acyl; a sulfonate ester; optionally substituted alkyl sulfonyl; optionally substituted arylsulfonyl; a lipid; an amino acid; a carbohydrate; a peptide; cholesterol; and a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R₃ is independently H, or mono-, di- or triphosphate; and

Base is a non-natural base selected from the group of:

$$R''$$
 R''
 R''

wherein:

each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, -O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCONH₂;

m is 0 or 1;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

Q₁ and Q₂ independently are N or C-R"; and

Q₃, Q₄, Q₅ and Q₆ independently are N or CH;

with the proviso that in bases (g) and (i), R', R"" are not H, OH, or NH₂; and Q,

T, V, Q_2 , Q_5 and Q_6 are not N.

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In one embodiment, the amino acid residue is of the formula $C(O)C(R^{11})(R^{12})(NR^{13}R^{14})$, wherein:

R¹¹ is the side chain of an amino acid and wherein, as in proline, R¹¹ can optionally be attached to R¹³ to form a ring structure; or alternatively, R¹¹ is an alkyl, aryl, heteroaryl or heterocyclic moiety;

R¹² is hydrogen, alkyl (including lower alkyl) or aryl; and

R¹³ and R¹⁴ are independently hydrogen, acyl (including an acyl derivative attached to R¹¹) or alkyl (including but not limited to methyl, ethyl, propyl, and cyclopropyl).

In another preferred embodiment, at least one of R² and R³ is an amino acid residue, and is preferably L-valinyl.

The β -D- and β -L-nucleosides of this invention may inhibit *Flaviviridae* polymerase activity. Nucleosides can be screened for their ability to inhibit *Flaviviridae* polymerase activity *in vitro* according to screening methods set forth more particularly herein. One can readily determine the spectrum of activity by evaluating the compound in the assays described herein or with another confirmatory assay.

In one embodiment the efficacy of the anti-Flaviviridae compound is measured according to the concentration of compound necessary to reduce the plaque number of the virus *in vitro*, according to methods set forth more particularly herein, by 50% (i.e. the compound's EC₅₀). In preferred embodiments the parent of the prodrug compound exhibits an EC₅₀ of less than 25, 15, 10, 5, or 1 micromolar. In preferred embodiments the compound exhibits an EC₅₀ of less than 15 or 10 micromolar, when measured according to the polymerase assay described in Ferrari *et al.*, *Jnl. of Vir.*, 73:1649-1654, 1999; Ishii *et al.*, *Hepatology*, 29:1227-1235,1999; Lohmann *et al.*, *Jnl. of Bio. Chem.*, 274:10807-10815, 1999; or Yamashita *et al., Jnl. of Bio. Chem.*, 273:15479-15486, 1998.

In another embodiment, combination and/or alternation therapy are provided. In combination therapy, an effective dosage of two or more agents are administered together, whereas during alternation therapy an effective dosage of each agent is administered serially. The dosages will depend on absorption, inactivation, and excretion rates of the

drug as well as other factors known to those of skill in the art. It is to be noted that dosage values will also vary with the severity of the condition to be alleviated. It is to be further understood that for any particular subject, specific dosage regimens and schedules should be adjusted over time according to the individual need and the professional judgment of the person administering or supervising the administration of the compositions.

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The invention provides combinations of at least two of the herein described prodrugs. The invention further provides at least one of the described 2' and 3'-prodrugs in combination or alternation with a second nucleoside that exhibits activity against a *Flaviviridae*, including but not limited to a parent drug of any of the prodrugs defined herein, i.e. β -D-2',6-dimethyl-cytidine, β -D-2',6-dimethyl-thymidine, β -D-2',8-dimethyl-adenosine, β -D-2',8-dimethyl-guanosine, β -D-2',6-dimethyl-5-fluorocytidine and/or β -D-2',6-dimethyl-uridine. Alternatively, the 2' or 3'-prodrugs can be administered in combination or alternation with other anti-*Flaviviridae* agent exhibits an EC₅₀ of less than 10 or 15 micromolar, or their prodrugs or pharmaceutically acceptable salts.

Nonlimiting examples of antiviral agents that can be used in combination with the compounds disclosed herein include: 1) an interferon and/or ribavirin; (2) Substrate-based NS3 protease inhibitors; (3) Non-substrate-based inhibitors; (4) Thiazolidine derivatives; (5) Thiazolidines and benzanilides; (6) A phenan-threnequinone; (7) NS3 inhibitors; (8) HCV helicase inhibitors; (9) polymerase inhibitors, including RNA-dependent RNA-polymerase inhibitors; (10) Antisense oligodeoxynucleotides; (11) Inhibitors of IRES-dependent translation; (12) Nuclease-resistant ribozymes; and (13) other compounds that exhibit activity against a flaviviridae. The invention further includes administering the prodrug in combination or alternation with an immune modulator or other pharmaceutically active modifer of viral replication, including a biological material such as a protein, peptide, oligonucleotide, or gamma globulin, including but not limited to interfereon, interleukin, or an antisense oligonucleotides to genes which express or regulate *Flaviviridae* replication.

The invention further includes administering the prodrug in combination or alternation with an immune modulator or other pharmaceutically active modifer of viral replication, including a biological material such as a protein, peptide, oligonucleotide, or gamma globulin, including but not limited to interfereon, interleukin, or an antisense oligonucleotides to genes which express or regulate *Flaviviridae* replication.

In particular, the present invention provides the following:

- (a) a compound of Formula (XIII) (XXIII), or its pharmaceutically acceptable salt or prodrug thereof;
- (b) pharmaceutical compositions comprising a compound of Formula (XIII) (XXIII), or its pharmaceutically acceptable salt or prodrug thereof, together with a pharmaceutically acceptable carrier or dileuent;

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- (c) pharmaceutical compositions comprising a compound of Formula (XIII) (XXIII), or its pharmaceutically acceptable salt or prodrug thereof, with one or more other effective antiviral agent, optionally with a pharmaceutically acceptable carrier or dileuent;
- (d) pharmaceutical compositions for the treatment of a *Flaviviridae* infection in a host comprising a compound of Formula (I) (XXIII), or its pharmaceutically acceptable salt or prodrug thereof, together with a pharmaceutically acceptable carrier or dileuent;
 - (e) pharmaceutical compositions for the treatment of a *Flaviviridae* infection in a host comprising a compound of Formula (I) (XXIII), or its pharmaceutically acceptable salt or prodrug thereof, with one or more other effective antiviral agent, optionally with a pharmaceutically acceptable carrier or dileuent;
 - (f) methods for the treatment of a Flaviviridae infection in a host comprising a compound of Formula (I) - (XXIII), or its pharmaceutically acceptable salt or prodrug thereof, optionally with a pharmaceutically acceptable carrier or dileuent;
- (g) methods for the treatment of a Flaviviridae infection in a host comprising a compound of Formula (I) - (XXIII), or its pharmaceutically acceptable salt or prodrug thereof, with one or more other effective antiviral agent, optionally with a pharmaceutically acceptable carrier or dileuent;
 - (h) uses for a compound of Formula (I) (XXIII), or its pharmaceutically acceptable salt or prodrug thereof, optionally with a pharmaceutically acceptable carrier or dileuent, for the treatment of a *Flaviviridae* infection in a host;
 - (i) uses for a compound of Formula (I) (XXIII), or its pharmaceutically acceptable salt or prodrug thereof, with one or more other effective antiviral agent, optionally with a pharmaceutically acceptable carrier or dileuent, for the treatment of a *Flaviviridae* infection in a host;
 - (j) uses for a compound of Formula (I) (XXIII), or its pharmaceutically acceptable salt or prodrug thereof, optionally with a pharmaceutically acceptable carrier or dileuent, in the manufacture of a medicament for the treatment of a *Flaviviridae* infection in a host; and

(k) uses for a compound of Formula (I) - (XXIII), or its pharmaceutically acceptable salt or prodrug thereof, with one or more other effective antiviral agent, optionally with a pharmaceutically acceptable carrier or dileuent, in the manufacture of a medicament for the treatment of a *Flaviviridae* infection in a host.

In an alternative embodiment, the parent nucleoside compound of any of the 2'- or 3'-prodrugs (i.e., the nucleosides without the 2'- or 3'- cleavable moieties) are provided for the treatment of a *Flaviviridae* infection and in particular a hepatitis C infection.

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BRIEF DESCRIPTION OF THE FIGURES

Figure 1 provides the structure of various non-limiting examples of nucleosides of the present invention, as well as other known nucleosides, in particular FIAU and ribavirin.

Figure 2 provides a non-limiting example of the steps involved in esterification of the 1', 2', 3' or 4'-branched β -D or β -L nucleoside to obtain a 2'-prodrug. The same general procedure can be used to obtain the 3'-prodrug by selectively protecting the 2' and 5'-hydroxyl groups or protecting the 2', 3' and 5'-hydroxyl groups and selectively deprotecting the 3'-hydroxyl.

Figure 3 provides a non-limiting example of the steps involved in esterification of the 1', 2', 3' or 4'-branched β -D or β -L nucleoside to obtain a 3'-prodrug.

Figure 4 provides a non-limiting example of the steps involved in esterification of the 1', 2', 3' or 4'-branched β -D or β -L nucleoside to obtain a 2',3'-prodrug.

DETAILED DESCRIPTION OF THE INVENTION

The invention as disclosed herein is a compound, a method and composition for the treatment of a *Flaviviridae* infection in humans and other host animals. The method includes the administration of an effective anti-*Flaviviridae* treatment amount of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside as described herein or a pharmaceutically acceptable salt, derivative or prodrug thereof, optionally in a pharmaceutically acceptable carrier. The compounds of this invention either possesses antiviral (i.e., anti-HCV) activity, or are metabolized to a compound that exhibits such activity. HCV is a member of the *Flaviviridae* family. HCV has been placed in a new monotypic genus, hepacivirus. Therefore, in one embodiment, the *Flaviviridae* is HCV. In an alternate embodiment, the *Flaviviridae* is a flavivirus or pestivirus.

The 2' and/or 3'-prodrugs of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside are acyl derivates of a secondary or tertiary alcohol alpha to a secondary or tertiary carbon. Due to the steric hindrance of these prodrugs over the 5'-prodrugs, an acyl derivative of a primary alcohol, these prodrugs differentially modulate the biological properties of the molecule *in vivo*. It has been discovered that the 2' and/or 3'-prodrugs of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside can provide a drug with increased half-life and improved pharmacokinetic profile.

The 2' or 3'-prodrug in a preferred embodiment is a cleavable acyl group, and most particularly, an amino acid moiety, prepared from any naturally occurring and synthetic α , β γ or δ amino acid, including but is not limited to, glycine, alanine, valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine. In a preferred embodiment, the amino acid is in the L-configuration. Alternatively, the amino acid can be a derivative of alanyl, valinyl, leucinyl, isoleuccinyl, prolinyl, phenylalaninyl, tryptophanyl, methioninyl, glycinyl, serinyl, threoninyl, cysteinyl, tyrosinyl, asparaginyl, glutaminyl, aspartoyl, glutaroyl, lysinyl, argininyl, histidinyl, β -alanyl, β -valinyl, β -leucinyl, β -isoleuccinyl, β -prolinyl, β -phenylalaninyl, β -tryptophanyl, β -methioninyl, β -asparaginyl, β -glutaminyl, β -dimethyl, β -glutaroyl, β -lysinyl, β -argininyl or β -histidinyl. In one particular, embodiment, the moiety is a valine ester. On particularly preferred compound is the 3'-valine ester of 2',6-dimethyl-ribo-cytidine.

The oral bio-availability of 1', 2', 3' or 4'-branched β -D or β -L nucleoside as the neutral base and the HCl salt is low in rodents and non-human primates. It has been discovered that there is significant competition of 1', 2', 3' or 4'-branched β -D or β -L nucleoside with other nucleosides or nucleoside analogs for absorption, or transport, from the gastrointestinal tract and competition of other nucleosides or nucleoside analogs for the absorption with 1', 2', 3' or 4'-branched β -D or β -L nucleoside. In order to improve oral bioavailability and reduce the potential for drug-drug interaction, 2' and 3'-prodrugs of 1', 2', 3' or 4'-branched β -D or β -L nucleoside were obtained with higher oral bioavailability than the parent molecule and a reduced effect on the bioavailability of other nucleosides or nucleoside analogs used in combination.

The 2', 3', and/or 5'-mono, di or trivaline ester of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside have higher oral bioavailability than the parent 1', 2', 3' or 4'-branched β -D

or β -L nucleoside and reduced interaction with other nucleosides or nucleoside analogs when used in combination as compared to 1', 2', 3' or 4'-branched β -D or β -L nucleoside.

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The 2', 3', and/or 5'-mono, di or trivaline ester of a 1', 2', 3' or 4'-branched β-D or β -L nucleoside can be converted to the parent 1', 2', 3' or 4'-branched β-D or β-L nucleoside through de-esterification in the gastrointestinal mucosa, blood or liver. The 2', 3', and/or 5'-mono, di or trivaline ester of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside can be actively transported from the gastrointestinal lumen after oral delivery into the bloodstream by an amino acid transporter function in the mucosa of the gastrointestinal tract. This accounts for the increase in oral bioavailability compared to the parent 1', 2', 3' or 4'-branched β-D or β-L nucleoside that is transported primarily by a nucleoside transporter function. There is also reduced competition for uptake of the 2', 3', and/or 5'mono, di or trivaline ester of 1', 2', 3' or 4'-branched β-D or β-L nucleoside with other nucleosides or nucleoside analogs that are transported by the nucleoside transporter function and not the amino acid transporter function. As partial de-esterification of the di or trivaline ester of 1', 2', 3' or 4'-branched β-D or β-L nucleoside occurs prior to complete absorption, the mono or divaline ester continues to be absorbed using the amino acid transporter function. Therefore, the desired outcome of better absorption, or bioavailability, and reduced competition with other nucleosides or nucleoside analogs for uptake into the bloodstream can be maintained.

In summary, the present invention includes the following features:

- (a) a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, as described herein, and pharmaceutically acceptable salts and compositions thereof;
- (b) a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside as described herein, and pharmaceutically acceptable salts and compositions thereof for use in the treatment and/or prophylaxis of a *Flaviviridae* infection, especially in individuals diagnosed as having a *Flaviviridae* infection or being at risk of becoming infected by hepatitis C;
- (c) a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, or their pharmaceutically acceptable salts and compositions as described herein substantially in the absence of the opposite enantiomers of the described nucleoside, or substantially isolated from other chemical entities;
- (d) processes for the preparation of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, as described in more detail below;

- (e) pharmaceutical formulations comprising a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside or a pharmaceutically acceptable salt thereof together with a pharmaceutically acceptable carrier or diluent;
- (f) pharmaceutical formulations comprising a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside or a pharmaceutically acceptable salt thereof together with one or more other effective anti-HCV agents, optionally in a pharmaceutically acceptable carrier or diluent;

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- (g) pharmaceutical formulations comprising a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside or a pharmaceutically acceptable salt thereof together with the parent of a different a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, optionally in a pharmaceutically acceptable carrier or diluent;
- (h) a method for the treatment and/or prophylaxis of a host infected with Flaviviridae that includes the administration of an effective amount of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, its pharmaceutically acceptable salt or composition;
- (i) a method for the treatment and/or prophylaxis of a host infected with *Flaviviridae* that includes the administration of an effective amount of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, its pharmaceutically acceptable salt or composition in combination and/or alternation with one or more effective anti-HCV agent;
- (j) a method for the treatment and/or prophylaxis of a host infected with *Flaviviridae* that includes the administration of an effective amount of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, or its pharmaceutically acceptable salt or composition with the parent of a different a 1', 2', 3' or 4'-branched β-D or β-L nucleoside;
- (k) a method for the treatment and/or prophylaxis of a host infected with Flaviviridae that includes the administration of an effective amount of a 2' and/or 3'-prodrug of a β-D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof;
- 30 (I) a method for the treatment and/or prophylaxis of a host infected with *Flaviviridae* that includes the administration of an effective amount of the 2'-valyl or acetyl ester of β-D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof;

- (m) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, and pharmaceutically acceptable salts and compositions thereof for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host;
- (n) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, its pharmaceutically acceptable salt or composition in combination and/or alternation with one or more effective anti-HCV agent for the treatment and/or prophylaxis of a Flaviviridae infection in a host;

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- (o) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, or its pharmaceutically acceptable salt or composition with the parent of a different a 1', 2', 3' or 4'-branched β-D or β-L nucleoside for the treatment and/or prophylaxis of a Flaviviridae infection in a host;
- (p) use of a 2' and/or 3'-prodrug of a β-D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host;
- 15 (q) use of the 3'-valyl or acetyl ester of β-D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host;
 - (r) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β -D or β -L nucleoside, and pharmaceutically acceptable salts and compositions thereof in the manufacture of a medicament for treatment and/or prophylaxis of a *Flaviviridae* infection;
 - (s) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, its pharmaceutically acceptable salt or composition in combination and/or alternation with one or more effective anti-HCV agent in the manufacture of a medicament for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host;
- use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, or its pharmaceutically acceptable salt or composition with the parent of a different a 1', 2', 3' or 4'-branched β-D or β-L nucleoside in the manufacture of a medicament for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host;
- (u) use of a 2' and/or 3'-prodrug of a β-D-2'-methyl-cytidine, or its pharmaceutically
 30 acceptable salt or composition thereof in the manufacture of a medicament for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host; and
 - (v) use of the 2'-valyl or acetyl ester of β -D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof in the manufacture of a medicament for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host.

Flaviviridae included within the scope of this invention are discussed generally in Fields Virology, Editors: Fields, B. N., Knipe, D. M., and Howley, P. M., Lippincott-Raven Publishers, Philadelphia, PA, Chapter 31, 1996. In a particular embodiment of the invention, the Flaviviridae is HCV. In an alternate embodiment of the invention, the Flaviviridae is a flavivirus or pestivirus. Specific flaviviruses include, without limitation: Absettarov, Alfuy, Apoi, Aroa, Bagaza, Banzi, Bouboui, Bussuquara, Cacipacore, Carey Island, Dakar bat, Dengue 1, Dengue 2, Dengue 3, Dengue 4, Edge Hill, Entebbe bat, Gadgets Gully, Hanzalova, Hypr, Ilheus, Israel turkey meningoencephalitis, Japanese encephalitis, Jugra, Jutiapa, Kadam, Karshi, Kedougou, Kokobera, Koutango, Kumlinge, Kunjin, Kyasanur Forest disease, Langat, Louping ill, Meaban, Modoc, Montana myotis leukoencephalitis, Murray valley encephalitis, Naranjal, Negishi, Ntaya, Omsk hemorrhagic fever, Phnom-Penh bat, Powassan, Rio Bravo, Rocio, Royal Farm, Russian spring-summer encephalitis, Saboya, St. Louis encephalitis, Sal Vieja, San Perlita, Saumarez Reef, Sepik, Sokuluk, Spondweni, Stratford, Tembusu, Tyuleniy, Uganda S, Usutu, Wesselsbron, West Nile, Yaounde, Yellow fever, and Zika.

Pestiviruses included within the scope of this invention are discussed generally in *Fields Virology*, Editors: Fields, B. N., Knipe, D. M., and Howley, P. M., Lippincott-Raven Publishers, Philadelphia, PA, Chapter 33, 1996. Specific pestiviruses include, without limitation: bovine viral diarrhea virus ("BVDV"), classical swine fever virus ("CSFV," also called hog cholera virus), and border disease virus ("BDV").

I. Active Compounds

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In a first principal embodiment, a compound of Formula (I), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (I):

$$X^{1}$$
 X^{1}
 X^{2}
 X^{1}
 X^{2}
 X^{2}
 X^{3}
 X^{2}
 X^{3}
 X^{2}
 X^{3}
 X^{2}
 X^{3}
 X^{2}

or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

R¹, R² and R³ are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R¹, R² and/or R³ is independently H or phosphate (including mono-, di- or triphosphate); wherein in one embodiment R² and/or R³ is not phosphate (including mono-, di- or triphosphate or a stabilized phosphate prodrug);

wherein at least one of R^2 and R^3 is not hydrogen;

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Y¹ is hydrogen, bromo, chloro, fluoro, iodo, CN, OH, OR⁴, NH₂, NHR⁴, NR⁴R⁵, SH or SR⁴; X¹ is a straight chained, branched or cyclic optionally substituted alkyl, CH₃, CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, CH₂OH, optionally substituted alkenyl, optionally substituted alkynyl, COOH, COOR⁴, COO-alkyl, COO-aryl, CO-Oalkoxyalkyl, CONH₂, CONHR⁴, CON(R⁴)₂, chloro, bromo, fluoro, iodo, CN, N₃, OH, OR⁴, NH₂, NHR⁴, NR⁴R⁵, SH or SR⁵;

X² is H, straight chained, branched or cyclic optionally substituted alkyl, CH₃, CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, CH₂OH, optionally substituted alkenyl, optionally substituted alkynyl, COOH, COOR⁴, COO-alkyl, COO-aryl, COOalkoxyalkyl, CONH₂, CONHR⁴, CON(R⁴)₂, chloro, bromo, fluoro, iodo, CN, N₃, OH, OR⁴, NH₂, NHR⁴, NR⁴R⁵, SH or SR⁵; and

wherein each Y³ is independently H, F, Cl, Br or I;

each R⁴ and R⁵ is independently hydrogen, acyl (including lower acyl), alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl), lower alkyl, alkenyl, alkynyl or cycloalkyl.

In a preferred subembodiment, a compound of Formula (I) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (I) or a

pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

R¹ is H or phosphate (preferably H);

R² and R³ are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R² and R³ is acyl or an amino acid residue;

X¹ is CH₃, CF₃ or CH₂CH₃;

X² is H or NH₂; and

Y is hydrogen, bromo, chloro, fluoro, iodo, NH₂ or OH.

In a second principal embodiment, a compound of Formula (II) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (II):

$$X^2$$
 X^1
 X^1
 X^1
 X^2
 X^2

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or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

 R^1 , R^2 , R^3 , R^4 , R^5 , Y^1 , Y^3 , X^1 and X^2 are as defined above.

In a preferred subembodiment, a compound of Formula (II), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (II) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

25 R¹ is H or phosphate (preferably H);

R² and R³ are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R² and R³ is acyl or an amino acid residue;

X¹ is CH₃, CF₃ or CH₂CH₃;

X² is H, F, Cl, Br, I or CH₃; and

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Y is hydrogen, bromo, chloro, fluoro, iodo, NH₂ or OH.

In a third principal embodiment, a compound of Formula (III), (IV) or (V) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (III), (IV), or (V):

Base
$$R^{1}O$$
 R^{6} $R^{2}O$ R^{7} R^{6} $R^{2}O$ R^{7} R^{6} R^{7} $R^{1}O$ $R^{2}O$ R^{7} R^{7} $R^{1}O$ $R^{2}O$ R^{7} R^{7}

or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

 R^1 , R^2 , R^3 , R^4 , R^5 , Y, Y¹ and X^2 are as defined above;

Base is selected from the group consisting of:

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(A)

(B)

$$X^{2}$$

$$X^{3}$$

$$X^{2}$$

$$X^{4}$$

$$X^{4}$$

$$X^{2}$$

$$X^{4}$$

$$X^{2}$$

$$X^{4}$$

$$X^{4}$$

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$$X^{4}$$

$$X^{4}$$

$$X^{4}$$

$$X^{4}$$

$$X^{4}$$

$$X^{4}$$

$$X^{5}$$

$$X^{7}$$

$$(AE) \qquad (AF)$$

$$(AE) \qquad (AF)$$

$$(AG) \qquad (AH) \qquad (AI) \qquad (AJ)$$

$$X^{3} \qquad W^{4} \qquad W^{2} \qquad W^{4} \qquad W^{4} \qquad W^{2} \qquad W^{4} \qquad W^{4$$

$$X^3$$
 Y^2
 X^3
 Y^2
 Y^3
 Y^3
 Y^2
 Y^3
 Y^4
 Y^5
 Y^6
 Y^6
 Y^7
 Y^8
 Y^8

each W^1 , W^2 , W^3 and W^4 is independently N, CH, CF, CI, CBr, CCI, CCN, CCH₃, CCF₃, CCH₂CH₃, CC(O)NH₂, CC(O)NHR⁴, CC(O)N(R⁴)₂, CC(O)OH, CC(O)OR⁴ or CX³;

each W* is independently O, S, NH or NR⁴;

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wherein for Base (**B**), W⁴ cannot be CH if W¹, W² and W³ are N; wherein for Base (**E**), (**F**), (**K**), (**L**), (**W**) and (**X**), W⁴ cannot be CH if W¹ is N; X is O, S, SO₂, CH₂, CH₂OH, CHF, CF₂, C(Y³)₂, CHCN, C(CN)₂, CHR⁴ or C(R⁴)₂; X* is CH, CF, CY³ or CR⁴;

each X³ is independently a straight chained, branched or cyclic optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, N₃, CN, -C(O)OH, -C(O)OR⁴, -C(O)O(lower alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂, -C(O)N(lower alkyl)₂, OH, OR⁴, -O(acyl), -O(lower acyl), -O(alkyl), -O(alkenyl), -O(alkynyl), -O(aralkyl), -O(cycloalkyl), -S(acyl), -S(lower acyl), -S(R⁴), -S(lower alkyl), -S(alkenyl), -S(alkynyl), -S(aralkyl), -S(cycloalkyl), chloro, bromo, fluoro, iodo, NH₂, -NH(lower alkyl), -NHR⁴, -NR⁴R⁵, -NH(acyl), -N(lower alkyl)₂, -NH(alkenyl), -NH(alkynyl), -NH(aralkyl), -NH(cycloalkyl), -N(acyl)₂;

-NH(alkynyl), -NH(aralkyl), -NH(cycloalkyl), -N(acyl)₂;

each Y² is independently O, S, NH or NR⁴;

each Y³ is independently H, F, Cl, Br or I;

each R^6 is independently an optionally substituted alkyl (including lower alkyl), CH_3 , CH_2CN , CH_2N_3 , CH_2NH_2 , CH_2NHCH_3 , $CH_2N(CH_3)_2$, CH_2OH , halogenated alkyl (including halogenated lower alkyl), CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2Cl , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)_3$, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, $-CH_2C(O)OH$, $-CH_2C(O)OR^4$, $-CH_2C(O)O(lower alkyl)$, $-CH_2C(O)NH_2$, $-CH_2C(O)NHR^4$, $-CH_2C(O)NH(lower alkyl)$, $-CH_2C(O)N(lower alkyl)_2$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)OR^4$, $-(CH_2)_mC(O)O(lower alkyl)_2$, $-(CH_2)_mC(O)O(lower alkyl)_3$

alkyl), $-(CH_2)_mC(O)NH_2$, $-(CH_2)_mC(O)NHR^4$, $-(CH_2)_mC(O)NH(lower alkyl)$, $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower alkyl)_2$, -C(O)OH, $-C(O)OR^4$, -C(O)O(lower alkyl), $-C(O)NH_2$, $-C(O)NHR^4$, -C(O)NH(lower alkyl), $-C(O)N(R^4)_2$, $-C(O)N(lower alkyl)_2$ or cyano;

each R⁷ is independently OH, OR², optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl), -CH₂C(O)SH, -CH₂C(O)SR⁴, -CH₂C(O)S(lower alkyl), -CH₂C(O)NH₂, -CH₂C(O)NHR⁴, -CH₂C(O)NH(lower alkyl), $-CH_2C(O)N(lower alkyl)_2$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)OR^4$, -CH₂C(O)N(R⁴)₂, $-(CH_2)_mC(O)O(lower alkyl)$, $-(CH_2)_mC(O)SH$, $-(CH_2)_mC(O)SR^4$, $-(CH_2)_mC(O)S(lower alkyl)$ -(CH₂)_mC(O)NH₂, $-(CH_2)_mC(O)NHR^4$, $-(CH_2)_mC(O)NH(lower)$ $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower alkyl)_2$, -C(O)OH, $-C(O)OR^4$, $-C(O)O(lower alkyl)_2$ alkyl), -C(O)SH, -C(O)SR⁴, -C(O)S(lower alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂, -C(O)N(lower alkyl)₂, -O(acyl), -O(lower acyl), -O(R⁴), -O(alkyl), -O(lower alkyl), -O(alkenyl), -O(alkynyl), -O(cycloalkyl), -S(acyl), -S(lower acyl), -S(R⁴), -S(lower alkyl), -S(alkenyl), -S(alkynyl), -S(aralkyl), -S(cycloalkyl), NO₂, NH₂, -NH(lower alkyl), -NHR⁴, -NR⁴R⁵, -NH(acyl), -N(lower alkyl)₂, -NH(alkenyl), -NH(alkynyl), -NH(aralkyl), -NH(cycloalkyl), -N(acyl)2, azido, cyano, SCN, OCN, NCO or halo (fluoro, chloro, bromo, iodo);

alternatively, R⁶ and R⁷ can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); and

each m is independently 0, 1 or 2.

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In a first subembodiment, the compound of Formula (III), (IV) or (V), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, or the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (III),

(IV), or (V) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, wherein:

R¹ is H or phosphate (preferably H);

R² and R³ are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R² and R³ is acyl or an amino acid residue;

 W^4 is CX^3 ;

X³ is CH₃, CF₃ or CH₂CH₃;

R⁶ is alkyl; and

X is O, S, SO₂ or CH₂.

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In a second subembodiment, the compound of Formula (III), (IV) or (V), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, or the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (III), (IV) or (V), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, wherein:

R¹ is H or phosphate (preferably H);

R² and R³ are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R² and R³ is an amino acid residue;

 W^4 is CX^3 :

20 X^3 is CH₃, CF₃ or CH₂CH₃;

R⁶ is alkyl; and

X is O, S, SO₂ or CH₂.

In a third subembodiment, the compound of Formula (III), (IV) or (V), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, or the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (III), (IV) or (V), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, wherein:

R¹ is H or phosphate (preferably H);

R² and R³ are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R² and R³ is acyl or an amino acid residue;

 W^4 is CX^3 ;

X³ is CH₃, CF₃ or CH₂CH₃;

R⁶ is alkyl; and

X is O.

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In even more preferred subembodiment, the compound of Formula (IV(a)), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (IV(a)):

$$R^{1}O$$

$$OR^{2}$$

$$R^{7}$$

$$OR^{2}$$

$$R^{7}$$

$$(IV(a))$$

or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

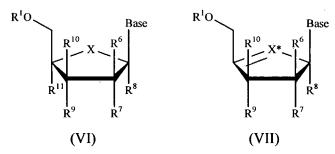
Base is as defined herein; optionally substituted with an amine or cyclopropyl (e.g., 2-amino, 2,6-diamino or cyclopropyl guanosine);

R⁷ is halo (F, Cl, Br or I), though preferably F;

R¹ is H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R¹ or R² is independently H or phosphate. In one embodiment R² is not phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); and

R² is phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R¹ or R² is independently H or phosphate. In one embodiment R² is not phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug).

In a fourth principal embodiment, a compound of Formula (VI) or (VII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or (VII):



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, wherein:

Base, R, R¹, R⁴, R⁵, R⁶, R⁷, Y, Y¹, Y², Y³, W*, W¹, W², W³, W⁴, X, X*, X¹, X², and X³ are as defined above;

wherein, in one embodiment, R^8 in Formula (VI) is -OH or $-NH_2$ only when X is carbon; and

wherein;

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each R⁸ and R¹¹ is independently hydrogen, an optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl), -CH₂C(O)NHR⁴, -CH₂C(O)NH(lower alkyl), -CH₂C(O)N(R⁴)₂, -CH₂C(O)NH₂, $-CH_2C(O)N(lower alkyl)_2$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)OR^4$, $-(CH_2)_mC(O)O(lower)$ -(CH₂)_mC(O)NH₂, $-(CH_2)_mC(O)NHR^4$, -(CH₂)_mC(O)NH(lower $-(CH_2)_mC(O)N(R^4)_2, -(CH_2)_mC(O)N(lower alkyl)_2, -C(O)OH, -C(O)OR^4, -C(O)O(lower alkyl)_2, -C(O)OH, -C(O)OR^4, -C(O)O(lower alkyl)_2, -C(O)O(lower alkyl)_2, -C(O)OH, -C(O)OR^4, -C(O)O(lower alkyl)_2, -C(O)OH, -C(O)OR^4, -C(O)O(lower alkyl)_2, -C(O)O(lower alkyl)_2, -C(O)OH, -C(O)OR^4, -C(O)O(lower alkyl)_2, -C(O$ alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂, -C(O)N(lower alkyl)₂, cyano, NH-acyl or N(acyl)₂;

each R⁹ and R¹⁰ are independently hydrogen, OH, OR², optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, prionally substituted alkynyl, haloalkynyl, optionally substituted carbocycle

(preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl), -CH₂C(O)SH, -CH₂C(O)SR⁴, -CH₂C(O)S(lower alkyl), -CH₂C(O)NH₂, -CH₂C(O)NHR⁴, -CH₂C(O)NH(lower alkyl), -CH₂C(O)N(R⁴)₂, $-CH_2C(O)N(lower alkyl)_2$, $-(CH_2)_mC(O)OH$ -(CH₂)_mC(O)OR⁴, $-(CH_2)_mC(O)O(lower alkyl)$, $-(CH_2)_mC(O)SH$, $-(CH_2)_mC(O)SR^4$, $-(CH_2)_mC(O)S(lower alkyl)$ -(CH₂)_mC(O)NH₂,-(CH₂)_mC(O)NHR⁴, $-(CH_2)_mC(O)NH(lower)$ alkyl), $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower alkyl)_2$, -C(O)OH, $-C(O)OR^4$, $-C(O)O(lower alkyl)_2$ alkyl), -C(O)SH, -C(O)SR⁴, -C(O)S(lower alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂, -C(O)N(lower alkyl)₂, -O(acyl), -O(lower acyl), -O(R⁴), -O(alkyl). -O(lower alkyl), -O(alkenyl), -O(alkynyl), -O(aralkyl), -O(cycloalkyl), -S(acyl), -S(lower acyl), -S(R⁴), -S(lower alkyl), -S(alkenyl), -S(alkynyl), -S(aralkyl), -S(cycloalkyl), NO₂, NH₂, -NH(lower alkyl), -NHR⁴, -NR⁴R⁵, -NH(acyl), -N(lower alkyl)₂, -NH(alkenyl), -NH(alkynyl), -NH(aralkyl), -NH(cycloalkyl), -N(acyl)₂, azido, cyano, SCN, OCN, NCO or halo (fluoro, chloro, bromo, iodo);

each m is independently 0, 1 or 2; and

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alternatively, R⁶ and R¹⁰, R⁷ and R⁹, R⁸ and R⁷ or R⁹ and R¹¹ can come together to form a bridged compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); or alternatively, R⁶ and R⁷ or R⁹ and R¹⁰ can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N).

In a particularly preferred embodiment, a compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, in which:

X is O, S, SO or SO₂; and/or

• each R⁶ is independently an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or

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- each R⁷ is independently -OH, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, -O-alkyl, -O-alkenyl, -O-alkynyl, -O-aralkyl, -O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or
- each R⁹ is independently hydrogen, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, -20 OH, -O-alkyl, -O-alkenyl, -O-alkynyl, -O-aralkyl, -O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-arałkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONHalkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH2NHCH3, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃ CF₂CF₃, CH₂CO₂R⁴, 25 $(CH_2)_mCOOH$, $(CH_2)_mCOOR^4$, $(CH_2)_mCONH_2$, $(CH_2)_mCON(R^4)_2$, $(CH_2)_mCONHR^4$, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or
- each R¹⁰ is independently hydrogen, an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃,

CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or

- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or
- each m is independently 0 or 1; and/or
 - Base is selected from one of the following:

wherein:

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each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aryl, O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-eycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N; Q₁ and Q₂ independently are N or C-R; wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and

tautomeric forms thereof.

In a particularly preferred alternative embodiment, a compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, in which:

• X is O, S, SO or SO₂; and/or

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- R⁶ and R⁷ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or
- each R⁹ is independently hydrogen, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, OH, -O-alkyl, -O-alkenyl, -O-alkynyl, -O-aralkyl, -O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or
- each R¹⁰ is independently hydrogen, an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or
- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or
 - each m is independently 0 or 1; and/or

• Base is selected from one of the following:

wherein:

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each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aryl, O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

 Q_1 and Q_2 independently are N or C-R;

wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

In another particularly preferred embodiment, a compound of Formula (VI), or its pharmaceutically acceptable salt or prodrug thereof, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount

of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

• X is O, S, SO or SO₂; and/or

- each R⁶ is independently an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or
- each R⁷ is independently -OH, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, -O-alkyl, -O-alkyl, -O-alkynyl, -O-aralkyl, -O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO2, NH2, N3, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO2-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH2OH, CH2NH2, CH2NHCH3, CH2N(CH3)2, CH2F, CH2Cl, CH2N3, CH2CN, CH2CF3, CF3, CF2CF3, CH2CO2R⁴, (CH2)mCOOH, (CH2)mCOOR⁴, (CH2)mCONH2, (CH2)mCON(R⁴)2, (CH2)mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or
 - R⁹ and R¹⁰ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or
- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or
 - each m is independently 0 or 1; and/or
 - Base is selected from one of the following:

wherein:

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each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aryl, O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

 Q_1 and Q_2 independently are N or C-R;

wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and

tautomeric forms thereof.

In another particularly preferred embodiment, a compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a

pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

X is O, S, SO or SO₂; and/or

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- R⁶ and R⁷ come together to form a spiro compound selected from the group consisting
 of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound
 having one or more N, O and/or S atoms, said heteroatoms independently taken alone or
 in combination with one another; and/or
- R⁹ and R¹⁰ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or
- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or
- each m is independently 0 or 1; and/or
- Base is selected from one of the following:

wherein:

each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, -O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-

cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C-R" or N;

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T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

 Q_1 and Q_2 independently are N or C-R;

wherein R is H, alkyl or acyl;

Q₃ Q₄, Q₅ and Q₆ independently are N or CH; and

tautomeric forms thereof.

In a particularly preferred embodiment, a compound of Formula (VI), or its pharmaceutically acceptable salt or prodrug thereof, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

- X is CH₂, CH₂OH, CHF, CF₂, C(Y³)₂, CHCN, C(CN)₂, CHR⁴ or C(R⁴)₂; and/or
- each R⁶ is independently an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or
- each R⁷ is independently -OH, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, -O-alkyl, -O-alkyl, -O-alkynyl, -O-aralkyl, -O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered

- heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or
- each R⁹ is independently hydrogen, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, -5 OH, -O-alkyl, -O-alkenyl, -O-alkynyl, -O-aralkyl, -O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂CI, CH₂N₃, CH₂CN, CH₂CF₃, CF₃ CF₂CF₃, CH₂CO₂R⁴, 10 $(CH_2)_mCOOH$, $(CH_2)_mCOOR^4$, $(CH_2)_mCONH_2$, $(CH_2)_mCON(R^4)_2$, $(CH_2)_mCONHR^4$, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or
- each R¹⁰ is independently hydrogen, an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or
- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or
 - each m is independently 0 or 1; and/or
 - Base is selected from one of the following:

$$R'' \longrightarrow R'' \longrightarrow R' \longrightarrow$$

wherein:

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each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, -O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

Q₁ and Q₂ independently are N or C-R;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and tautomeric forms thereof.

In a particularly preferred alternative embodiment, a compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

- X is CH₂, CH₂OH, CHF, CF₂, C(Y³)₂, CHCN, C(CN)₂, CHR⁴ or C(R⁴)₂; and/or
- R⁶ and R⁷ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or
- each R¹⁰ is independently hydrogen, an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or
- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or
- each m is independently 0 or 1; and/or

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• Base is selected from one of the following:

wherein:

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each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aryl, O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

 Q_1 and Q_2 independently are N or C-R;

wherein R is H, alkyl or acyl;

 $Q_3,\,Q_4,\,Q_5$ and Q_6 independently are N or CH; and

tautomeric forms thereof.

In another particularly preferred embodiment, a compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a

pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

- X is CH₂, CH₂OH, CHF, CF₂, C(Y³)₂, CHCN, C(CN)₂, CHR⁴ or C(R⁴)₂; and/or
- each R⁶ is independently an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or
- each R⁷ is independently -OH, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, -O-alkyl, -O-alkynyl, -O-aralkyl, -O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or
 - R⁹ and R¹⁰ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or
- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or
 - each m is independently 0 or 1; and/or

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• Base is selected from one of the following:

wherein:

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each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aryl, O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

 Q_1 and Q_2 independently are N or C-R;

wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and

tautomeric forms thereof.

In another particularly preferred embodiment, a compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a

pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

- X is CH₂, CH₂OH, CHF, CF₂, C(Y³)₂, CHCN, C(CN)₂, CHR⁴ or C(R⁴)₂; and/or
- R⁶ and R⁷ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or
- R⁹ and R¹⁰ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or
- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or
- each m is independently 0 or 1; and/or

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• Base is selected from one of the following:

wherein:

each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aryl, O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aryl, N-aryl, N-aryl, S-acyl, S-acyl, S-aryl, S-acyl, S-aryl, S-acyl, S-acyl,

cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C-R" or N;

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T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

 Q_1 and Q_2 independently are N or C-R;

wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and

tautomeric forms thereof.

In a particularly preferred embodiment, a compound of Formula (VII), or its pharmaceutically acceptable salt or prodrug thereof, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

- X* is CH, CF, CY³ or CR⁴; and/or
- each R⁶ is independently an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or
- each R⁷ is independently -OH, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, -O-alkyl, -O-alkyl, -O-alkynyl, -O-aralkyl, -O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered

- heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or
- each R⁹ is independently hydrogen, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, OH, -O-alkyl, -O-alkenyl, -O-alkynyl, -O-aralkyl, -O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or
- each R¹⁰ is independently hydrogen, an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or
- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or
 - each m is independently 0 or 1; and/or
 - Base is selected from one of the following:

wherein:

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each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, -O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

 Q_1 and Q_2 independently are N or C-R;

wherein R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and

tautomeric forms thereof.

In a particularly preferred alternative embodiment, a compound of Formula (VII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of

Formula (VII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

• X* is CH, CF, CY³ or CR⁴; and/or

- R⁶ and R⁷ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or
- each R⁹ is independently hydrogen, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, -10 OH, -O-alkyl, -O-alkenyl, -O-alkynyl, -O-aralkyl, -O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂CI, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, 15 (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or
- each R¹⁰ is independently hydrogen, an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or
- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or
 - each m is independently 0 or 1; and/or
 - Base is selected from one of the following:

wherein:

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each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aryl, O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

 Q_1 and Q_2 independently are N or C-R;

R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and

tautomeric forms thereof.

In another particularly preferred embodiment, a compound of Formula (VII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula or a

pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

• X* is CH, CF, CY³ or CR⁴; and/or

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- each R⁶ is independently an optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, or (CH₂)_mCONHR⁴; and/or
- each R⁷ is independently -OH, optionally substituted lower alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted cycloalkyl, -O-alkyl, -O-alkenyl, -O-aralkyl, -O-cycloalkyl-, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R⁴, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴, an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination; and/or
 - R⁹ and R¹⁰ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or
- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or
 - each m is independently 0 or 1; and/or
 - Base is selected from one of the following:

$$R''$$
 R''
 R''

wherein:

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each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, -O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

 Q_1 and Q_2 independently are N or C-R;

R is H, alkyl or acyl;

 Q_3 , Q_4 , Q_5 and Q_6 independently are N or CH; and tautomeric forms thereof.

In another particularly preferred embodiment, a compound of Formula (VII), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VII) or a

pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

• X* is CH, CF, CY³ or CR⁴; and/or

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- R⁶ and R⁷ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or
- R⁹ and R¹⁰ come together to form a spiro compound selected from the group consisting of optionally substituted 3-7 membered spiro carbocyclic or heterocyclic compound having one or more N, O and/or S atoms, said heteroatoms independently taken alone or in combination with one another; and/or
- each R⁸ and R¹¹ is independently H, CH₃, CH₂OH, CH₂F, CH₂N₃, (CH₂)_mCOOH, (CH₂)_mCOOR⁴, (CH₂)_mCONH₂, (CH₂)_mCON(R⁴)₂, (CH₂)_mCONHR⁴ and N-acyl; and/or
- each m is independently 0 or 1; and/or
- Base is selected from one of the following:

$$R''$$
 R''
 R''

wherein:

each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aryl, O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S

cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

W is C-R" or N;

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T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

Q₁ and Q₂ independently are N or C-R;

R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and

tautomeric forms thereof.

In a first subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl; (3) R⁷ and R⁹ are independently OR², alkyl, alkenyl, alkynyl, Br-vinyl, Oalkenyl, chlorine, bromine, iodine, NO2, amino, loweralkylamino or di(loweralkyl)amino; (4) R⁸ and R¹⁰ are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; (5) X is O, S, SO₂ or CH₂; (6) W^4 is CX^3 ; and (7) X^3 is CH₃, CF₃ or CH₂CH₃.

In a second subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl

(including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl, alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO₂, amino, loweralkylamino, or di(loweralkyl)amino; (3) R⁷ and R⁹ are independently OR²; (4) R⁸ and R¹⁰ are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; (5) X is O, S, SO₂ or CH₂; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

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In a third subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl, alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO₂, amino, loweralkylamino or di(loweralkyl)amino; (3) R⁷ and R⁹ are independently OR², alkyl, alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO₂, amino, loweralkylamino or di(loweralkyl)amino; (4) R⁸ and R¹⁰ are H; (5) X is O. S. SO₂ or CH₂; (6) W^4 is CX³; and (7) X^3 is CH₃, CF₃ or CH₂CH₃.

In a fourth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic

form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl, alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO₂, amino, loweralkylamino, or di(loweralkyl)amino; (3) R⁷ and R⁹ are independently OR², alkyl, alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO₂, amino, loweralkylamino, or di(loweralkyl)amino; (4) R⁸ and R¹⁰ are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; (5) X is O; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

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In a fifth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl; (3) R⁷ and R⁹ are independently OR¹; (4) R⁸ and R¹⁰ are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; (5) X is O, S, SO₂ or CH₂; (6) W⁴ is CX^3 ; and (7) X^3 is CH_3 , CF_3 or CH_2CH_3 .

In a sixth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a

pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl; (3) R⁷ and R⁹ are independently OR², alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO₂, amino, loweralkylamino, or di(loweralkyl)-amino; (4) R⁸ and R¹⁰ are H; (5) X is O, S, SO₂, or CH₂; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

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In a seventh subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl; (3) R⁷ and R⁹ are independently OR², alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO2, amino, loweralkylamino or di(loweralkyl)-amino; (4) R⁸ and R¹⁰ are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; (5) X is O; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

In a eighth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a

pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO₂, amino, loweralkylamino or di(loweralkyl)amino; (3) R⁷ and R⁹ are independently OR²; (4) R⁸ and R¹⁰ are hydrogen; (6) X is O, S, SO₂ or CH₂; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

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In a ninth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a Flaviviridae comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered in vivo is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO₂, amino, loweralkylamino or di(loweralkyl)amino; (3) R⁷ and R⁹ are independently OR²; (4) R⁸ and R¹⁰ are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; (5) X is O; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

In a tenth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a *Flaviviridae* comprising

administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R¹ is independently H or phosphate; (2) R⁶ is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO₂, amino, loweralkylamino or di(loweralkyl)amino; (3) R⁷ and R⁹ are independently OR², alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO₂, amino, loweralkylamino, or di(loweralkyl)amino; (4) R⁸ and R¹⁰ are hydrogen; (5) X is O; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

In an eleventh subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate; (2) R⁶ is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO₂, amino, loweralkylamino or di(loweralkyl)amino; (3) R⁷ and R⁹ are independently OR²; (4) R⁸ and R¹⁰ are hydrogen; (5) X is O, S, SO₂ or CH₂; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

In a twelfth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate; (2) R⁶ is alkyl; (3) R⁷ and R⁹ are independently OR²; (4) R⁸ and R¹⁰ are hydrogen; (5) X is O, S, SO₂, or CH₂; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

In a thirteenth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate; (2) R⁶ is alkyl; (3) R⁷ and R⁹ are independently OR²; (4) R⁸ and R¹⁰ are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; (5) X is O; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

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In a fourteenth subembodiment, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which: (1) R¹ is independently H or phosphate; (2) R⁶ is alkyl; (3) R⁷ and R⁹ are independently OR², alkyl (including lower alkyl), alkenyl, alkynyl, Brvinyl, O-alkenyl, chlorine, bromine, iodine, NO₂, amino, loweralkylamino or di(loweralkyl)amino; (4) R⁸ and R¹⁰ are hydrogen; (5) X is O; (6) W⁴ is CX³; and (7) X³ is CH₃, CF₃ or CH₂CH₃.

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In even more preferred subembodiments, the compound of Formula (VI), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, and the method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VI) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, in which:

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- (1) Base is 8-methyladenine; (2) R¹ is hydrogen; (3) R⁶ is methyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is O;
- (1) Base is 8-methylguanine; (2) R¹ is hydrogen; (3) R⁶ is methyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is O;

- (1) Base is 6-methylcytosine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 and R^9 are hydroxyl; (5) R^8 and R^{10} are hydrogen; and (6) X is O;
- (1) Base is 6-methylthymidine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 and R^9 are hydroxyl; (5) R^8 and R^{10} are hydrogen; and (6) X is O;

- (1) Base is 6-methyluracil; (2) R¹ is hydrogen; (3) R⁶ is methyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is O;
- (1) Base is 8-methyladenine; (2) R¹ is phosphate; (3) R⁶ is methyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is O;
- (1) Base is 8-methyladenine; (2) R¹ is hydrogen; (3) R⁶ is ethyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is O;

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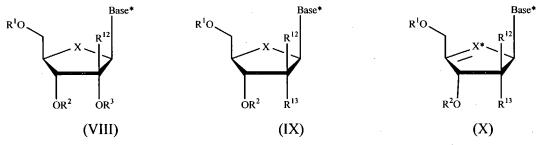
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- (1) Base is 8-methyladenine; (2) R¹ is hydrogen; (3) R⁶ is propyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is O;
- (1) Base is 8-methyladenine; (2) R¹ is hydrogen; (3) R⁶ is butyl; (4) R⁷ and R⁹ are hydroxyl; (5) R⁸ and R¹⁰ are hydrogen; and (6) X is O;
- (1) Base is 8-methyladenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydrogen and R^9 is hydroxyl; (5) R^8 and R^{10} are hydrogen; and (6) X is O;
- (1) Base is 8-methyladenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 and R^9 are hydroxyl; (5) R^8 and R^{10} are hydrogen; and (6) X is S;
- (1) Base is 8-methyladenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 and R^9 are hydroxyl; (5) R^8 and R^{10} are hydrogen; and (6) X is SO_2 ;
- (1) Base is 8-methyladenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 and R^9 are hydroxyl; (5) R^8 and R^{10} are hydrogen; and (6) X is CH_2 .

In a fifth principal embodiment, a compound of Formula (VIII), (IX) or (X) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric, or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (VIII), (IX), or (X):



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

 R^1 , R^2 , R^3 , R^4 , R^5 , Y^3 , X, and X^* are as defined above;

Base* is a purine or pyrimidine base as defined herein;

each R¹² is independently a substituted alkyl (including lower alkyl), CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃. substituted alkenyl, haloalkenyl (but not Br-vinyl), substituted alkynyl, haloalkynyl, -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl), -CH₂C(O)NH₂, -CH₂C(O)NHR⁴, -CH₂C(O)NH(lower alkyl), -CH₂C(O)N(R⁴)₂, -CH₂C(O)N(lower alkyl)₂, -(CH₂)_mC(O)OH, $-(CH_2)_mC(O)OR^4$, $-(CH_2)_mC(O)O(lower alkyl)$, $-(CH_2)_mC(O)NH_2$, $-(CH_2)_mC(O)NHR^4$, $-(CH_2)_mC(O)NH(lower alkyl), -(CH_2)_mC(O)N(R^4)_2, -(CH_2)_mC(O)N(lower alkyl)_1$ -C(O)OH, $-C(O)OR^4$, $-C(O)NH_2$, $-C(O)NHR^4$, -C(O)NH(lower alkyl), $-C(O)N(R^4)_2$, -C(O)N(lower alkyl)₂; each R¹³ is independently substituted alkyl (including lower alkyl), CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF_3 , $C(Y^3)_3$, 2-Br-ethyl, CH_2F , CH_2CI , CH_2CF_3 , CF_2CF_3 , $C(Y^3)_2C(Y^3)_3$, substituted alkenyl, haloalkenyl (but not Br-vinyl), substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower $-CH_2C(O)SR^4$, $-CH_2C(O)S(lower)$ -CH₂C(O)SH, alkyl), -CH₂C(O)NHR⁴, -CH₂C(O)NH(lower alkyl), -CH₂C(O)N(R⁴)₂, -CH₂C(O)N(lower alkyl)₂, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)OR^4$, $-(CH_2)_mC(O)O(lower alkyl)$, $-(CH_2)_mC(O)SH$, $-(CH_2)_mC(O)SR^4$, $-(CH_2)_mC(O)S(lower alkyl)$, $-(CH_2)_mC(O)NH_2$, $-(CH_2)_mC(O)NHR^4$, -(CH₂)_mC(O)N(R⁴)₂, -(CH₂)_mC(O)N(lower)-(CH₂)_mC(O)NH(loweralkyl), -C(O)OH, -C(O)OR⁴, -C(O)SH, -C(O)SR⁴, -C(O)S(lower alkyl), -C(O)NH₂, -C(O)NHR⁴, $-C(O)NH(lower alkyl), -C(O)N(R^4)_2, -C(O)N(lower alkyl)_2, -O(R^4), -O(alkynyl),$ -O(aralkyl), -O(cycloalkyl), -S(acyl), -S(lower acyl), -S(R⁴), -S(lower alkyl), -S(alkenyl), -S(alkynyl), -S(aralkyl), -S(cycloalkyl), -NHR⁴, -NR⁴R⁵, -NH(alkenyl), -NH(alkynyl), -NH(aralkyl), -NH(cycloalkyl), SCN, OCN, NCO or fluoro: alternatively, R¹² and R¹³ can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); and each m is independently 0, 1 or 2.

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In a sixth principal embodiment, a compound of Formula (XI) or (XII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric, or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (XI) or (XII):

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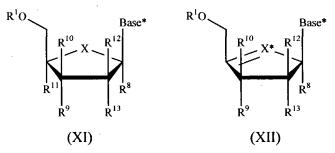
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or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

Base*, R, R¹, R², R³, R⁴, R⁵, R¹², R¹³, Y, Y¹, Y², Y³, W*, W¹, W², W³, W⁴, X, X*, X² and X^3 are as defined above;

wherein, in one embodiment, R⁸ in Formula (XI) is -OH or -NH₂ only when X is carbon; and wherein;

each R⁸ and R¹¹ is independently hydrogen, an optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl), $-CH_2C(O)NHR^4$, -CH₂C(O)NH(lower $-CH_2C(O)N(R^4)_2$ $-CH_2C(O)NH_2$ alkyl), $-CH_2C(O)N(lower alkyl)_2$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)OR^4$, $-(CH_2)_mC(O)O(lower)$ $-(CH_2)_mC(O)NH_2,$ -(CH₂)_mC(O)NHR⁴,-(CH₂)_mC(O)NH(lower alkyl), $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower alkyl)_2$, -C(O)OH, $-C(O)OR^4$, $-C(O)O(lower alkyl)_2$ alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂, -C(O)N(lower alkyl)₂, cyano, NH-acyl or N(acyl)₂;

each R⁹ and R¹⁰ are independently hydrogen, OH, OR², optionally substituted alkyl (including lower alkyl), CH₃, CH₂CN, CH₂N₃, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂OH, halogenated alkyl (including halogenated lower alkyl), CF₃, C(Y³)₃, 2-Br-ethyl, CH₂F, CH₂Cl, CH₂CF₃, CF₂CF₃, C(Y³)₂C(Y³)₃, optionally substituted alkenyl, haloalkenyl, Br-vinyl, optionally substituted alkynyl, haloalkynyl, optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring), optionally substituted heterocycle (preferably

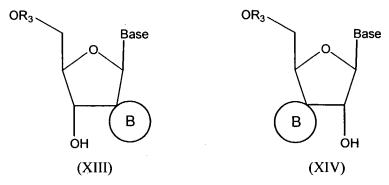
a 3-7 membered heterocyclic ring having one or more O, S and/or N), optionally substituted heteroaryl (preferably a 3-7 membered heteroaromatic ring having one or more O, S and/or N), -CH₂C(O)OH, -CH₂C(O)OR⁴, -CH₂C(O)O(lower alkyl), -CH₂C(O)SH, -CH₂C(O)SR⁴, -CH₂C(O)S(lower alkyl), -CH₂C(O)NH₂, -CH₂C(O)NHR⁴, -CH₂C(O)NH(lower alkyl), $-CH_2C(O)N(R^4)_2$, $-CH_2C(O)N(lower alkyl)_2$, $-(CH_2)_mC(O)OH$, $-(CH_2)_mC(O)OR^4$, $-(CH_2)_mC(O)O(lower alkyl)$, $-(CH_2)_mC(O)SH$, $-(CH_2)_mC(O)SR^4$, $-(CH_2)_mC(O)S(lower alkyl)$ $-(CH_2)_mC(O)NH_2$ -(CH₂)_mC(O)NHR⁴, $-(CH_2)_mC(O)NH(lower)$ $-(CH_2)_mC(O)N(R^4)_2$, $-(CH_2)_mC(O)N(lower alkyl)_2$, -C(O)OH, $-C(O)OR^4$, $-C(O)O(lower alkyl)_2$ alkyl), -C(O)SH, -C(O)SR⁴, -C(O)S(lower alkyl), -C(O)NH₂, -C(O)NHR⁴, -C(O)NH(lower alkyl), -C(O)N(R⁴)₂, -C(O)N(lower alkyl)₂, -O(acyl), -O(lower acyl), -O(R⁴), -O(alkyl), -O(lower alkyl), -O(alkenyl), -O(alkynyl), -O(aralkyl), -O(cycloalkyl), -S(acyl), -S(lower acyl), -S(R⁴), -S(lower alkyl), -S(alkenyl), -S(alkynyl), -S(aralkyl), -S(cycloalkyl), NO₂, NH₂, -NH(lower alkyl), -NHR⁴, -NR⁴R⁵, -NH(acyl), -N(lower alkyl)₂, -NH(alkenyl), -NH(alkynyl), -NH(aralkyl), -NH(cycloalkyl), -N(acyl)₂, azido, cyano, SCN, OCN, NCO or halo (fluoro, chloro, bromo, iodo); each m is independently 0, 1 or 2; and alternatively, R⁸ and R¹³, R⁹ and R¹³, R⁹ and R¹¹ or R¹⁰ and R¹² can come together to form a bridged compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); or alternatively, R¹² and R¹³ or R⁹ and R¹⁰ can come together to form a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N).

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In a particular apect of the invention, compounds of the Formula (XIII) or (XIV) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (XIII) or (XIV):



or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

R₃ is selected from the group consisting of H; mono-, di-, and tri-phosphate or a stabilized phosphate prodrug; acyl; a sulfonate ester; optionally substituted alkyl sulfonyl; optionally substituted arylsulfonyl; a lipid; an amino acid; a carbohydrate; a peptide; cholesterol; and a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R₃ is independently H, or mono-, di- or triphosphate;

X" is selected from the group consisting of one or more O, S, SO, SO₂, N, NH, NR and CH₂ wherein any of the aforementioned may be optionally substituted and may be variably positioned so as to form a 3-7 membered ring;

R is H, alkyl or acyl;

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B indicates a spiro compound selected from the group consisting of optionally substituted carbocycle (preferably a 3-7 membered carbocyclic ring) or optionally substituted heterocycle (preferably a 3-7 membered heterocyclic ring having one or more O, S and/or N); and

Base is selected from the group consisting of:

wherein:

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each R', R", R" and R" are independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aralkyl, -O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

m is 0 or 1;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N;

Q₁ and Q₂ independently are N or C-R;

R is H, alkyl or acyl;

Q₃, Q₄, Q₅ and Q₆ independently are N or CH; and

tautomeric forms thereof.

In a second particular apect of the invention, a compound of Formula (XV), (XVI) or (XVII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host

infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (XV), (XVI), or (XVII):

$$R_3O$$
 R_3O
 R_3O

or its pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

G and E independently are selected from the group consisting of H, CH₃, CH₂OH, CH₂F, CH₂N₃, CH₂CN, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONH₂, (CH₂)_mCONHR and N-acyl;

10 R is H, alkyl or acyl;

m is 0 or 1; and

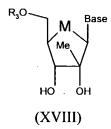
R³ and Base are as defined for Formula (XIII).

Alternatively, for compound of Formula (XVII), at most one of G and E can further be hydrogen.

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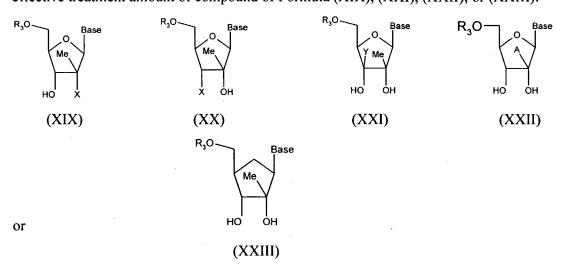
In a third particular apect of the invention, a compound of Formula (XVIII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (XVIII):



or its pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

M is selected from the group consisting of S, SO, and SO₂; and R₃ and Base are as defined for Formula (XIII).

In a fourth particular aspect of the invention, a compound of Formula (XIX), (XX), (XXI) (XXII) or (XXIII) or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (XIX), (XXII), (XXII), or (XXIII):



or its pharmaceutically acceptable salt or prodrug or a stereoisomeric, tautomeric or polymorphic form thereof, wherein:

A is selected from the group consisting of optionally substituted lower alkyl, cycloalkyl, alkenyl, alkynyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCO-NH₂, (CH₂)_mCONR₂, and (CH₂)_mCONHR;

Y is selected from the group consisting of H, optionally substituted lower alkyl, cycloalkyl, alkenyl, alkynyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONR₂, and (CH₂)_mCONHR;

20 R is H, alkyl or acyl;

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X is selected from the group consisting of -OH, optionally substituted alkyl, cycloalkyl, alkenyl, alkynyl, -O-alkyl, -O-alkenyl, -O-alkynyl, -O-aryl, -O-aralkyl, -O-cycloalkyl, O-acyl, F, Cl, Br, I, CN, NC, SCN, OCN, NCO, NO₂, NH₂, N₃, NH-acyl, NH-alkyl, N-dialkyl, NH-alkenyl, NH-alkynyl, NH-aryl, NH-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-alkenyl, S-alkynyl, S-aryl, S-aralkyl, S-acyl, S-cycloalkyl, CO₂-alkyl, CONH-alkyl, CON-dialkyl, CONH-alkenyl, CONH-alkynyl, CONH-aralkyl, CONH-cycloalkyl, CH₂OH, CH₂NH₂, CH₂NHCH₃, CH₂N(CH₃)₂, CH₂F, CH₂Cl, CH₂N₃, CH₂CN, CH₂CF₃, CF₃, CF₂CF₃, CH₂CO₂R, (CH₂)_mCOOH, (CH₂)_mCOOR, (CH₂)_mCONH₂, (CH₂)_mCONR₂,

(CH₂)_mCONHR, an optionally substituted 3-7 membered carbocyclic, and an optionally substituted 3-7 membered heterocyclic ring having O, S and/or N independently as a heteroatom taken alone or in combination;

m is 0 or 1;

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R₃ is selected from the group consisting of H; mono-, di-, and tri-phosphate or a stabilized phosphate prodrug; substituted or unsubstituted alkyl; acyl; a sulfonate ester; optionally substituted alkyl sulfonyl; optionally substituted arylsulfonyl; a lipid; an amino acid; a carbohydrate; a peptide; cholesterol; and a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R₁ is independently H, or mono-, di- or triphosphate; and

Base is a non-natural base selected from the group of:

15 wherein:

each R', R", R" and R" is independently selected from the group consisting of H, OH, substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkynyl, cycloalkyl, Br-vinyl, -O-alkyl, O-alkenyl, O-alkynyl, O-aryl, O-aryl, O-acyl, O-cycloalkyl, NH₂, NH-alkyl, N-dialkyl, NH-acyl, N-aryl, N-aralkyl, NH-cycloalkyl, SH, S-alkyl, S-acyl, S-aryl, S-cycloalkyl, S-aralkyl, F, Cl, Br, I, CN, COOH, CONH₂, CO₂-alkyl, CONH-alkyl, CON-dialkyl, OH, CF₃, CH₂OH, (CH₂)_mOH, (CH₂)_mNH₂, (CH₂)_mCOOH, (CH₂)_mCN, (CH₂)_mNO₂ and (CH₂)_mCONH₂;

m is 0 or 1;

W is C-R" or N;

T and V independently are CH or N;

Q is CH, -CCl, -CBr, -CF, -CI, -CCN, -C-COOH, -C-CONH₂, or N; Q_1 and Q_2 independently are N or C-R'"; and Q_3 , Q_4 , Q_5 and Q_6 independently are N or CH; with the proviso that in bases (g) and (i), R', R'" are not H, OH, or NH₂; and Q, T, V, Q_2 , Q_5 and Q_6 are not N.

In another preferred embodiment, a compound of Formula (IX), or a pharmaceutically acceptable salt or prodrug, or a stereoisomeric, tautomeric or polymorphic form thereof, is provided, as well as a method for the treatment of a host infected with a *Flaviviridae* comprising administering an effective treatment amount of compound of Formula (IX):

$$R^{1}O$$
 X
 R^{12}
 OR^{2}
 R^{13}
 (IX)

or a stereoisomeric, tautomeric or polymorphic form thereof, or a pharmaceutically acceptable salt thereof, wherein:

R¹, R² and R³ are independently H; phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl; arylsulfonyl; aralkylsulfonyl; a lipid; an amino acid; a carbohydrate; a peptide; cholesterol; or a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R¹, R² and/or R³ is independently H or phosphate;

X is O, S, SO₂ or CH₂;

Base* is a purine or pyrimidine base;

 R^{12} is $C(Y^3)_3$;

Y³ is independently H, F, Cl, Br or I; and

R¹³ is fluoro.

In one subembodiment X is O, and Y^3 is H. In another subembodiment, when X is O and Y^3 is H, R^1 , R^2 and R^3 are also H.

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II. Stereochemistry

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It is appreciated that nucleosides of the present invention have several chiral centers and may exist in and be isolated in optically active and racemic forms. Some compounds may exhibit polymorphism. It is to be understood that the present invention encompasses any racemic, optically-active, diastereomeric, polymorphic, or stereoisomeric form, or mixtures thereof, of a compound of the invention, which possess the useful properties described herein. It being well known in the art how to prepare optically active forms (for example, by resolution of the racemic form by recrystallization techniques, by synthesis from optically-active starting materials, by chiral synthesis, or by chromatographic separation using a chiral stationary phase).

In particular, since the 1' and 4' carbons of the nucleoside are chiral, their nonhydrogen substituents (the base and the CHOR groups, respectively) can be either cis (on the same side) or trans (on opposite sides) with respect to the sugar ring system. The four optical isomers therefore are represented by the following configurations (when orienting the sugar moiety in a horizontal plane such that the oxygen atom is in the back): cis (with both groups "up", which corresponds to the configuration of naturally occurring \(\beta \)-D nucleosides), cis (with both groups "down", which is a nonnaturally occurring \(\beta \)-L configuration), trans (with the C2' substituent "up" and the C4' substituent "down"), and trans (with the C2' substituent "down" and the C4' substituent "up"). The "D-nucleosides" are cis nucleosides in a natural configuration and the "L-nucleosides" are cis nucleosides in the nonnaturally occurring configuration.

Likewise, most amino acids are chiral (designated as L or D, wherein the L enantiomer is the naturally occurring configuration) and can exist as separate enantiomers.

Examples of methods to obtain optically active materials are known in the art, and include at least the following.

- i) <u>physical separation of crystals</u> a technique whereby macroscopic crystals of the individual enantiomers are manually separated. This technique can be used if crystals of the separate enantiomers exist, i.e., the material is a conglomerate, and the crystals are visually distinct;
- ii) <u>simultaneous crystallization</u> a technique whereby the individual enantiomers are separately crystallized from a solution of the racemate, possible only if the latter is a conglomerate in the solid state;
- iii) <u>enzymatic resolutions</u> a technique whereby partial or complete separation of a racemate by virtue of differing rates of reaction for the enantiomers with an enzyme;

- iv) <u>enzymatic asymmetric synthesis</u> a synthetic technique whereby at least one step of the synthesis uses an enzymatic reaction to obtain an enantiomerically pure or enriched synthetic precursor of the desired enantiomer;
- v) <u>chemical asymmetric synthesis</u> a synthetic technique whereby the desired enantiomer is synthesized from an achiral precursor under conditions that produce asymmetry (i.e., chirality) in the product, which may be achieved using chiral catalysts or chiral auxiliaries;

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- vi) <u>diastereomer separations</u> a technique whereby a racemic compound is reacted with an enantiomerically pure reagent (the chiral auxiliary) that converts the individual enantiomers to diastereomers. The resulting diastereomers are then separated by chromatography or crystallization by virtue of their now more distinct structural differences and the chiral auxiliary later removed to obtain the desired enantiomer;
- vii) <u>first- and second-order asymmetric transformations</u> a technique whereby diastereomers from the racemate equilibrate to yield a preponderance in solution of the diastereomer from the desired enantiomer or where preferential crystallization of the diastereomer from the desired enantiomer perturbs the equilibrium such that eventually in principle all the material is converted to the crystalline diastereomer from the desired enantiomer. The desired enantiomer is then released from the diastereomer:
- viii) <u>kinetic resolutions</u> this technique refers to the achievement of partial or complete resolution of a racemate (or of a further resolution of a partially resolved compound) by virtue of unequal reaction rates of the enantiomers with a chiral, non-racemic reagent or catalyst under kinetic conditions;
 - ix) <u>enantiospecific synthesis from non-racemic precursors</u> a synthetic technique whereby the desired enantiomer is obtained from non-chiral starting materials and where the stereochemical integrity is not or is only minimally compromised over the course of the synthesis;
 - x) <u>chiral liquid chromatography</u> a technique whereby the enantiomers of a racemate are separated in a liquid mobile phase by virtue of their differing interactions with a stationary phase. The stationary phase can be made of chiral material or the mobile phase can contain an additional chiral material to provoke the differing interactions;
 - xi) <u>chiral gas chromatography</u> a technique whereby the racemate is volatilized and enantiomers are separated by virtue of their differing interactions in the gaseous mobile phase with a column containing a fixed non-racemic chiral adsorbent phase;

- xii) <u>extraction with chiral solvents</u> a technique whereby the enantiomers are separated by virtue of preferential dissolution of one enantiomer into a particular chiral solvent;
- xiii) <u>transport across chiral membranes</u> a technique whereby a racemate is placed in contact with a thin membrane barrier. The barrier typically separates two miscible fluids, one containing the racemate, and a driving force such as concentration or pressure differential causes preferential transport across the membrane barrier. Separation occurs as a result of the non-racemic chiral nature of the membrane which allows only one enantiomer of the racemate to pass through.

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III. Definitions

The term "alkyl", as used herein, unless otherwise specified, refers to a saturated straight, branched, or cyclic, primary, secondary, or tertiary hydrocarbon of typically C₁ to C₁₀, and specifically includes methyl, CF₃, CCl₃, CFCl₂, CF₂Cl, ethyl, CH₂CF₃, CF₂CF₃, propyl, isopropyl, cyclopropyl, butyl, isobutyl, secbutyl, *t*-butyl, pentyl, cyclopentyl, isopentyl, neopentyl, hexyl, isohexyl, cyclohexyl, cyclohexylmethyl, 3-methylpentyl, 2,2-dimethylbutyl, and 2,3-dimethylbutyl. The term includes both substituted and unsubstituted alkyl groups, and particularly includes halogenated alkyl groups, and even more particularly fluorinated alkyl groups. Non-limiting examples of moieties with which the alkyl group can be substituted are selected from the group consisting of halogen (fluoro, chloro, bromo or iodo), hydroxyl, amino, alkylamino, arylamino, alkoxy, aryloxy, nitro, cyano, sulfonic acid, sulfate, phosphonic acid, phosphate, or phosphonate, either unprotected, or protected as necessary, as known to those skilled in the art, for example, as taught in Greene, *et al.*, Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991, hereby incorporated by reference.

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The term "lower alkyl", as used herein, and unless otherwise specified, refers to a C₁ to C₄ saturated straight, branched, or if appropriate, a cyclic (for example, cyclopropyl) alkyl group, including both substituted and unsubstituted moieties.

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The term "alkylamino" or "arylamino" refers to an amino group that has one or two alkyl or aryl substituents, respectively. Unless otherwise specifically stated in this application, when alkyl is a suitable moiety, lower alkyl is preferred. Similarly, when alkyl or lower alkyl is a suitable moiety, unsubstituted alkyl or lower alkyl is preferred.

The term "protected" as used herein and unless otherwise defined refers to a group that is added to an oxygen, nitrogen, or phosphorus atom to prevent its further reaction or for other purposes. A wide variety of oxygen and nitrogen protecting groups are known to those skilled in the art of organic synthesis.

The term "aryl", as used herein, and unless otherwise specified, refers to phenyl, biphenyl, or naphthyl, and preferably phenyl. The term includes both substituted and unsubstituted moieties. The aryl group can be substituted with any described moiety, including, but not limited to,one or more moieties selected from the group consisting of halogen (fluoro, chloro, bromo or iodo), hydroxyl, amino, alkylamino, arylamino, alkoxy, aryloxy, nitro, cyano, sulfonic acid, sulfate, phosphonic acid, phosphate, or phosphonate, either unprotected, or protected as necessary, as known to those skilled in the art, for example, as taught in Greene, et al., Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991.

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The term "alkaryl" or "alkylaryl" refers to an alkyl group with an aryl substituent. The term aralkyl or arylalkyl refers to an aryl group with an alkyl substituent.

The term "halo", as used herein, includes chloro, bromo, iodo, and fluoro.

The term "purine" or "pyrimidine" base includes, but is not limited to, adenine, N⁶alkylpurines, N⁶-acylpurines (wherein acyl is C(O)(alkyl, aryl, alkylaryl, or arylalkyl), N⁶benzylpurine, N⁶-halopurine, N⁶-vinylpurine, N⁶-acetylenic purine, N⁶-acyl purine, N⁶-hydroxyalkyl purine, N⁶-alkylaminopurine, N⁶-thioalkyl purine, N²-alkylpurines, N²thymine, cytosine, 5-fluorocytosine, alkyl-6-thiopurines, 5-methylcytosine, azapyrimidine, including 6-azacytosine, 2- and/or 4-mercaptopyrmidine, uracil, 5halouracil, including 5-fluorouracil, C⁵-alkylpyrimidines, C⁵-benzylpyrimidines, C⁵halopyrimidines, C⁵-vinylpyrimidine, C⁵-acetylenic pyrimidine, C⁵-acyl pyrimidine, C⁵hydroxyalkyl purine, C⁵-amidopyrimidine, C⁵-cyanopyrimidine, C⁵-iodopyrimidine, C⁶iodo-pyrimidine, C⁵-Br-vinyl pyrimidine, C⁶-Br-vinyl pyrimidine, C⁵-nitropyrimidine, N²-alkyl-6-thiopurines, C⁵-amino-pyrimidine, N²-alkylpurines, 5-azacytidinyl, 5-azauracilyl, triazolopyridinyl, imidazolopyridinyl, pyrrolopyrimidinyl, pyrazolopyrimidinyl. Purine bases include, but are not limited to, guanine, adenine, hypoxanthine, 2,6-diaminopurine, and 6-chloropurine. Functional oxygen and nitrogen groups on the base can be protected as necessary or desired. Suitable protecting groups are well known to those skilled in the art, and include trimethylsilyl, dimethylhexylsilyl, tbutyldimethylsilyl, and t-butyldiphenylsilyl, trityl, alkyl groups, and acyl groups such as acetyl and propionyl, methanesulfonyl, and p-toluenesulfonyl.

The term "acyl" or "O-linked ester" refers to a group of the formula C(O)R', wherein R' is an straight, branched, or cyclic alkyl (including lower alkyl), amino acid, aryl

including phenyl, alkaryl, aralkyl including benzyl, alkoxyalkyl including methoxymethyl, aryloxyalkyl such as phenoxymethyl; or substituted alkyl (including lower alkyl), aryl including phenyl optionally substituted with chloro, bromo, fluoro, iodo, C₁ to C₄ alkyl or C₁ to C₄ alkoxy, sulfonate esters such as alkyl or aralkyl sulphonyl including methanesulfonyl, the mono, di or triphosphate ester, trityl or monomethoxy-trityl, substituted benzyl, alkaryl, aralkyl including benzyl, alkoxyalkyl including methoxymethyl, aryloxyalkyl such as phenoxymethyl. Aryl groups in the esters optimally comprise a phenyl In particular, acyl groups include acetyl, trifluoroacetyl, methylacetyl, group. cyclopropylacetyl, cyclopropyl carboxy, propionyl, butyryl, hexanoyl, heptanoyl, octanoyl, neo-heptanoyl, phenylacetyl, 2-acetoxy-2-phenylacetyl, diphenylacetyl, α-methoxy-αtrifluoromethyl-phenylacetyl, bromoacetyl, 2-nitro-benzeneacetyl, 4-chloro-benzeneacetyl, 2-chloro-2,2-diphenylacetyl, 2-chloro-2-phenylacetyl, trimethylacetyl, chlorodifluoroacetyl, perfluoroacetyl, fluoroacetyl, bromodifluoroacetyl, methoxyacetyl, 2-thiopheneacetyl, chlorosulfonylacetyl, 3-methoxyphenylacetyl, phenoxyacetyl, tert-butylacetyl, trichloroacetyl, monochloro-acetyl, dichloroacetyl, 7H-dodecafluoro-heptanoyl, perfluoro-7H-dodeca-fluoroheptanoyl, 7-chlorododecafluoro-heptanoyl, 7-chlorododecafluoro-heptanoyl, 7H-dodecafluoroheptanoyl, 7H-dodeca-fluoroheptanoyl, nonanonafluoro-3,6-dioxaheptanoyl, fluoro-3.6-dioxa-heptanovl. perfluoroheptanoyl, methoxybenzoyl, methyl 3-amino-5-phenylthiophene-2-carboxyl, 3,6-dichloro-2-methoxybenzoyl, 4-(1,1,2,2-tetrafluoro-ethoxy)-benzoyl, 2-bromo-propionyl, omega-aminocapryl, decanoyl, n-pentadecanoyl, stearyl, 3-cyclopentyl-propionyl, 1-benzene-carboxyl, Oacetylmandelyl, pivaloyl acetyl, 1-adamantane-carboxyl, cyclohexane-carboxyl, 2,6pyridinedicarboxyl, cyclopropane-carboxyl, cyclobutane-carboxyl, perfluorocyclohexyl carboxyl, 4-methylbenzoyl, chloromethyl isoxazolyl carbonyl, perfluorocyclohexyl 1-methyl-1H-indazole-3-carbonyl, 2-propenyl, crotonyl, isovaleryl, carboxyl, pyrrolidinecarbonyl, 4-phenylbenzoyl. When the term acyl is used, it is meant to be a specific disclosure of acetyl, and independent trifluoroacetyl, cyclopropylacetyl, propionyl, butyryl, hexanoyl, heptanoyl, octanoyl, neo-heptanoyl, phenylacetyl, diphenylacetyl, a-trifluoromethyl-phenylacetyl, bromoacetyl, 4-chlorobenzeneacetyl, 2-chloro-2,2-diphenylacetyl, 2-chloro-2-phenylacetyl, trimethylacetyl, chlorodifluoroacetyl, perfluoroacetyl, fluoroacetyl, bromodifluoroacetyl, 2-thiopheneacetyl, tert-butylacetyl, trichloroacetyl, monochloro-acetyl, dichloroacetyl, methoxybenzoyl, 2bromo-propionyl, decanoyl, n-pentadecanoyl, stearyl, 3-cyclopentyl-propionyl, 1-benzenecarboxyl, pivaloyl 1-adamantane-carboxyl, cyclohexane-carboxyl, 2,6acetyl.

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pyridinedicarboxyl, cyclopropane-carboxyl, cyclobutane-carboxyl, 4-methylbenzoyl, crotonyl, 1-methyl-1H-indazole-3-carbonyl, 2-propenyl, isovaleryl, 4-phenylbenzoyl.

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The term "amino acid" includes naturally occurring and synthetic α , $\beta \gamma$ or δ amino acids, and includes but is not limited to, amino acids found in proteins, i.e. glycine, alanine, valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine. In a preferred embodiment, the amino acid is in the L-configuration. Alternatively, the amino acid can be a derivative of alanyl, valinyl, leucinyl, isoleuccinyl, prolinyl, phenylalaninyl, tryptophanyl, methioninyl, glycinyl, serinyl, threoninyl, cysteinyl, tyrosinyl, asparaginyl, glutaminyl, aspartoyl, glutaroyl, lysinyl, argininyl, histidinyl, βalanyl, β -valinyl, β -leucinyl, β -isoleuccinyl, β -prolinyl, β -phenylalaninyl, β -tryptophanyl, β-methioninyl, β-glycinyl, β-serinyl, β-threoninyl, β-cysteinyl, β-tyrosinyl, β-asparaginyl, β-glutaminyl, β-aspartoyl, β-glutaroyl, β-lysinyl, β-argininyl or β-histidinyl. Tables 1-24 set out examples of species within the present invention. When the term amino acid is used, it is considered to be a specific and independent disclosure of each of the esters of α , β γ or δ glycine, alanine, valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine in the D and L-configurations.

As used herein, the term "substantially free of" or "substantially in the absence of" refers to a nucleoside composition that includes at least 85 or 90% by weight, preferably 95%, 98 %, 99% or 100% by weight, of the designated enantiomer of that nucleoside. In a preferred embodiment, in the methods and compounds of this invention, the compounds are substantially free of enantiomers.

Similarly, the term "isolated" refers to a nucleoside composition that includes at least 85%, 90%, 95%, 98%, 99%, or 100% by weight, of the nucleoside, the remainder comprising other chemical species or enantiomers.

The term "host", as used herein, refers to an unicellular or multicellular organism in which the virus can replicate, including cell lines and animals, and preferably a human. Alternatively, the host can be carrying a part of the *Flaviviridae* viral genome, whose replication or function can be altered by the compounds of the present invention. The term host specifically refers to infected cells, cells transfected with all or part of the *Flaviviridae* genome and animals, in particular, primates (including chimpanzees) and humans. In most animal applications of the present invention, the host is a human patient. Veterinary

applications, in certain indications, however, are clearly anticipated by the present invention (such as chimpanzees).

The term "pharmaceutically acceptable salt or prodrug" is used throughout the specification to describe any pharmaceutically acceptable form (such as an ester, phosphate ester, salt of an ester or a related group) of a nucleoside compound which, upon administration to a patient, provides the nucleoside compound. Pharmaceutically acceptable salts include those derived from pharmaceutically acceptable inorganic or organic bases and acids. Suitable salts include those derived from alkali metals such as potassium and sodium, alkaline earth metals such as calcium and magnesium, among numerous other acids well known in the pharmaceutical art. Pharmaceutically acceptable prodrugs refer to a compound that is metabolized, for example hydrolyzed or oxidized, in the host to form the compound of the present invention. Typical examples of prodrugs include compounds that have biologically labile protecting groups on a functional moiety of the active compound. Prodrugs include compounds that can be oxidized, reduced, aminated, deaminated, hydroxylated, dehydroxylated, hydrolyzed, alkylated, dealkylated, acylated, deacylated, phosphorylated, dephosphorylated to produce the active The compounds of this invention possess antiviral activity against a Flaviviridae, or are metabolized to a compound that exhibits such activity.

IV. Prodrugs and Derivatives

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The active compound can be administered as any salt or prodrug that upon administration to the recipient is capable of providing directly or indirectly the parent compound, or that exhibits activity itself. Nonlimiting examples are the pharmaceutically acceptable salts (alternatively referred to as "physiologically acceptable salts"), and a compound, which has been alkylated, acylated, or otherwise modified at the 5'-position, or on the purine or pyrimidine base (a type of "pharmaceutically acceptable prodrug"). Further, the modifications can affect the biological activity of the compound, in some cases increasing the activity over the parent compound. This can easily be assessed by preparing the salt or prodrug and testing its antiviral activity according to the methods described herein, or other methods known to those skilled in the art.

A. Pharmaceutically Acceptable Salts

In cases where compounds are sufficiently basic or acidic to form stable nontoxic acid or base salts, administration of the compound as a pharmaceutically acceptable salt may be appropriate. Examples of pharmaceutically acceptable salts are

organic acid addition salts formed by addition of acids, which form a physiological acceptable anion, for example, tosylate, methanesulfonate, acetate, citrate, malonate, tartarate, succinate, benzoate, ascorate, α -ketoglutarate, α -glycerophosphate, formate, fumarate, propionate, glycolate, lactate, pyruvate, oxalate, maleate, and salicylate. Suitable inorganic salts may also be formed, including, sulfate, nitrate, bicarbonate, carbonate salts, hydrobromate and phosphoric acid. In a preferred embodiment, the salt is a mono- or dihydrochloride salt.

Pharmaceutically acceptable salts may be obtained using standard procedures well known in the art, for example by reacting a sufficiently basic compound such as an amine with a suitable acid affording a physiologically acceptable anion. Alkali metal (for example, sodium, potassium or lithium) or alkaline earth metal (for example calcium) salts of carboxylic acids can also be made. In one embodiment, the salt is a hydrochloride salt of the compound. In another embodiment, the pharmaceutically acceptable salt is a dihydrochloride salt.

B. Nucleotide Prodrug Formulations

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The nucleosides described herein can be administered as a nucleotide prodrug to increase the activity, bioavailability, stability or otherwise alter the properties of the nucleoside. A number of nucleotide prodrug ligands are known. In general, alkylation, acylation or other lipophilic modification of the mono-, di- or triphosphate of the nucleoside reduces polarity and allows passage into cells. Examples of substituent groups that can replace one or more hydrogens on the phosphate moiety are alkyl, aryl, steroids, carbohydrates, including sugars, 1,2-diacylglycerol and alcohols. Many are described in R. Jones and N. Bischoferger, *Antiviral Research*, 1995, 27:1-17. Any of these can be used in combination with the disclosed nucleosides to achieve a desired effect.

In an alternative embodiment, the nucleoside is delivered as a phosphonate or a SATE derivative.

The active nucleoside can also be provided as a 2', 3' and/or 5'-phosphoether lipid or a 2', 3' and/or 5'-ether lipid. Non-limiting examples are described include the following references, which are incorporated by reference herein: Kucera, L.S., N. Iyer, E. Leake, A. Raben, Modest E.K., D.L.W., and C. Piantadosi. 1990. "Novel membrane-interactive ether lipid analogs that inhibit infectious HIV-1 production and induce defective virus formation." *AIDS Res. Hum. Retro Viruses*. 6:491-501; Piantadosi, C., J. Marasco C.J., S.L. Morris-Natschke, K.L. Meyer, F. Gumus, J.R. Surles, K.S. Ishaq, L.S. Kucera, N. Iyer, C.A. Wallen, S. Piantadosi, and E.J. Modest. 1991. "Synthesis and evaluation of novel

ether lipid nucleoside conjugates for anti-HIV activity." *J. Med. Chem.* **34**:1408.1414; Hosteller, K.Y., D.D. Richman, D.A. Carson, L.M. Stuhmiller, G.M. T. van Wijk, and H. van den Bosch. 1992. "Greatly enhanced inhibition of human immunodeficiency virus type 1 replication in CEM and HT4-6C cells by 3'-deoxythymine diphosphate dimyristoylglycerol, a lipid prodrug of 3,-deoxythymine." *Antimicrob. Agents Chemother*. **36**:2025.2029; Hosetler, K.Y., L.M. Stuhmiller, H.B. Lenting, H. van den Bosch, and D.D. Richman, 1990. "Synthesis and antiretroviral activity of phospholipid analogs of azidothymine and other antiviral nucleosides." *J. Biol. Chem.* **26**5:61127.

Nonlimiting examples of U.S. patents that disclose suitable lipophilic substituents that can be covalently incorporated into the nucleoside, preferably at the 2', 3' and/or 5'-OH position of the nucleoside or lipophilic preparations, include U.S. Patent Nos. 5,149,794 (Sep. 22, 1992, Yatvin *et al.*); 5,194,654 (Mar. 16, 1993, Hostetler *et al.*); 5,223,263 (June 29, 1993, Hostetler *et al.*); 5,256,641 (Oct. 26, 1993, Yatvin *et al.*); 5,411,947 (May 2, 1995, Hostetler *et al.*); 5,463,092 (Oct. 31, 1995, Hostetler *et al.*); 5,543,389 (Aug. 6, 1996, Yatvin *et al.*); 5,543,390 (Aug. 6, 1996, Yatvin *et al.*); 5,543,391 (Aug. 6, 1996, Yatvin *et al.*); and 5,554,728 (Sep. 10, 1996; Basava *et al.*), all of which are incorporated herein by reference. Foreign patent applications that disclose lipophilic substituents that can be attached to the nucleosides of the present invention, or lipophilic preparations, include WO 89/02733, W0 90/00555, W0 91/16920, W0 91/18914, W0 93/00910, W0 94/26273, W0 96/15132, EP 0 350 287, EP 93917054.4, and W0 91/19721.

Aryl esters, especially phenyl esters, are also provided. Nonlimiting examples are disclosed in DeLambert et al., J. Med. Chem. 37: 498 (1994). Phenyl esters containing a carboxylic ester ortho to the phosphate are also provided. Khamnei and Torrence, J. Med. Chem.; 39:4109-4115 (1996). In particular, benzyl esters, which generate the parent compound, in some cases using substituents at the ortho- or para-position to accelerate hydrolysis, are provided. Examples of this class of prodrugs are described by Mitchell et al., J. Chem. Soc. Perkin Trans. I 2345 (1992); Brook, et al. WO 91/19721; and Glazier et al. WO 91/19721.

Cyclic and noncyclic phosphonate esters are also provided. Nonlimiting examples are disclosed in Hunston et al., J. Med. Chem. 27: 440-444 (1984) and Starrett et al. J. Med. Chem. 37: 1857-1864 (1994). Additionally, cyclic 3',5'-phosphate esters are provided. Nonlimiting examples are disclosed in Meier et al. J. Med. Chem. 22: 811-815 (1979). Cyclic 1',3'-propanyl phosphonate and phosphate esters, such as ones containing a fused aryl ring, i.e. the cyclosaligenyl ester, are also provided (Meier et al., Bioorg. Med. Chem.

Lett. 7: 99-104 (1997)). Unsubstituted cyclic 1',3'-propanyl esters of the monophosphates are also provided (Farquhar et al., J. Med. Chem. 26: 1153 (1983); Farquhar et al., J. Med. Chem. 28: 1358 (1985)) were prepared. In addition, cyclic 1',3'-propanyl esters substituted with a pivaloyloxy methyloxy group at C-1' are provided (Freed et al., Biochem. Pharmac. 38: 3193 (1989); Biller et al., U.S. Pat. No. 5,157,027).

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Cyclic phosphoramidates are known to cleave in vivo by an oxidative mechanism. Therefore, in one embodiment of the present invention, a variety of substituted 1',3' propanyl cyclic phosphoramidates are provided. Non-limiting examples are disclosed by Zon, Progress in Med. Chem. 19, 1205 (1982). Additionally, a number of 2'- and 3'-substituted proesters are provided. 2'-Substituents include methyl, dimethyl, bromo, trifluoromethyl, chloro, hydroxy, and methoxy; 3'-substituents including phenyl, methyl, trifluoromethyl, ethyl, propyl, i-propyl, and cyclohexyl. A variety of 1'-substituted analogs are also provided.

Cyclic esters of phosphorus-containing compounds are also provided. Non-limiting examples are described in the following:

- [1] di and tri esters of phosphoric acids as reported in Nifantyev et al., Phosphorus,
 Sulfur Silicon and Related Eelements, 113: 1 (1996); Wijnberg et al., EP-180276
 A1;
- [2] phosphorus (III) acid esters. Kryuchkov et al., Izv. Akad. Nauk SSSR, Ser. Khim. 6: 1244 (1987). Some of the compounds were claimed to be useful for the asymmetric synthesis of L-Dopa precursors. Sylvain et al., DE3512781 A1;
- [3] phosphoramidates. Shih et al., Bull. Inst. Chem. Acad. Sin, 41: 9 (1994); Edmundson et al., J. Chem. Res. Synop. 5: 122 (1989); and
- [4] phosphonates. Neidlein et al., Heterocycles 35: 1185 (1993).

Further, nonlimiting examples of U.S. and International Patent Applications that disclose suitable cyclic phosphoramidate prodrugs include U.S. Patent No. 6,312,662; WO 99/45016; WO 00/52015; WO 01/47935; and WO 01/18013 to Erion, et al. from Metabasis Therapeutics, Inc. Specifically, prodrugs of the formula below are provided:

$$M \longrightarrow V$$
 Z
 $M \longrightarrow V$
 W'
 W'
 (A^*)

wherein:

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- together V and Z are connected via an additional 3-5 atoms to form a cyclic group containing 5-7 atoms, optionally 1 heteroatom, substituted with hydroxy, acyloxy, alkoxycarbonyloxy, or aryloxycarbonyloxy attached to a carbon atom that is three atoms from both O groups attached to the phosphorus; or
- together V and Z are connected via an additional 3-5 atoms to form a cyclic group, optionally containing 1 heteroatom, that is fused to an aryl group at the beta and gamma position to the O attached to the phosphorus;
- together V and W are connected via an additional 3 carbon atoms to form an
 optionally substituted cyclic group containing 6 carbon atoms and substituted with
 one substituent selected from the group consisting of hydroxy, acyloxy,
 alkoxycarbonyloxy, alkylthiocarbonyloxy, and aryloxycarbonyloxy, attached to one
 of said carbon atoms that is three atoms from an O attached to the phosphorus;
- together Z and W are connected via an additional 3-5 atoms to form a cyclic group, optionally containing one heteroatom, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl;
- together W and W' are connected via an additional 2-5 atoms to form a cyclic group, optionally containing 0-2 heteroatoms, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl;
- Z is selected from the group consisting of -CHR² OH, -CHR² OC(O)R³, -CHR² OC(S)R³, -CHR² OC(S)OR³, -CHR² OC(O)SR³, -CHR² OCO₂ R³, -OR², -SR², -CHR² N₃, -CH² aryl, -CH(aryl)OH, -CH(CH=CR²₂)OH, -CH(C.ident.CR²)OH, -R²,

-NR 2 ₂, -OCOR 3 , --OCO $_2$ R 3 , -SCOR 3 , -SCO $_2$ R 3 , -NHCOR 2 , -NHCO $_2$ R 3 , -CH $_2$ NHaryl, -(CH $_2$) $_p$ -OR 12 , and -(CH $_2$) $_p$ -SR 12 ;

- p is an integer 2 or 3;
- with the provisos that:

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- a) V, Z, W, W' are not all -H; and
- b) when Z is --R², then at least one of V, W, and W' is not -H, alkyl, aralkyl, or alicyclic;
- R² is selected from the group consisting of R³ and -H;
- R³ is selected from the group consisting of alkyl, aryl, alicyclic, and aralkyl;
- R¹² is selected from the group consisting of -H, and lower acyl;
- M is the biologically active agent, and that is attached to the phosphorus in formula I via the 2', 3' and/or 5'-hydroxyl.

V. Combination or Alternation Therapy

The active compounds of the present invention can be administered in combination or alternation with another anti-flavivirus or pestivirus agent, or in particular an anti-HCV agent to treat any of the conditions described herein. In combination therapy, effective dosages of two or more agents are administered together, whereas in alternation or sequential-step therapy, an effective dosage of each agent is administered serially or sequentially. The dosages given will depend on absorption, inactivation and excretion rates of the drug as well as other factors known to those of skill in the art. It is to be noted that dosage values will also vary with the severity of the condition to be alleviated. It is to be further understood that for any particular subject, specific dosage regimens and schedules should be adjusted over time according to the individual need and the professional judgment of the person administering or supervising the administration of the compositions. In preferred embodiments, an anti-HCV (or anti-pestivirus or anti-flavivirus) compound that exhibits an EC50 of 10-15 μ M, or preferably less than 1-5 μ M, is desirable.

It has been recognized that drug-resistant variants of flaviviruses, pestiviruses or HCV can emerge after prolonged treatment with an antiviral agent. Drug resistance most typically occurs by mutation of a gene that encodes for an enzyme used in viral replication. The efficacy of a drug against the viral infection can be prolonged, augmented, or restored by administering the compound in combination or alternation with a second, and perhaps third, antiviral compound that induces a different mutation from that caused by the principle

drug. Alternatively, the pharmacokinetics, biodistribution or other parameter of the drug can be altered by such combination or alternation therapy. In general, combination therapy is typically preferred over alternation therapy because it induces multiple simultaneous stresses on the virus.

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Any of the viral treatments described in the Background of the Invention can be used in combination or alternation with the compounds described in this specification. Nonlimiting examples include:

1) Protease inhibitors

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Examples include substrate-based NS3 protease inhibitors (Attwood et al., Antiviral peptide derivatives, PCT WO 98/22496, 1998; Attwood et al., Antiviral Chemistry and Chemotherapy 1999, 10, 259-273; Attwood et al., Preparation and use of amino acid derivatives as anti-viral agents, German Patent Pub. DE 19914474; Tung et al. Inhibitors of serine proteases, particularly hepatitis C virus NS3 protease, PCT WO 98/17679), including alphaketoamides and hydrazinoureas, and inhibitors that terminate in an electrophile such as a boronic acid or phosphonate (Llinas-Brunet et al, Hepatitis C inhibitor peptide analogues, PCT WO 99/07734); Non-substrate-based NS3 protease inhibitors such as 2,4,6-trihydroxy-3-nitro-benzamide derivatives (Sudo K. et al., Biochemical and Biophysical Research Communications, 1997, 238, 643-647; Sudo K. et al. Antiviral Chemistry and Chemotherapy, 1998, 9, 186), including RD3-4082 and RD3-4078, the former substituted on the amide with a 14 carbon chain and the latter processing a para-phenoxyphenyl group; and Sch 68631, a phenanthrenequinone, an HCV protease inhibitor (Chu M. et al., Tetrahedron Letters 37:7229-7232, 1996).

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Sch 351633, isolated from the fungus *Penicillium griseofulvum*, was identified as a protease inhibitor (Chu M. et al., Bioorganic and Medicinal Chemistry Letters 9:1949-1952). Eglin c, isolated from leech, is a potent inhibitor of several serine proteases such as S. griseus proteases A and B, α-chymotrypsin, chymase and subtilisin. Qasim M.A. et al., Biochemistry 36:1598-1607, 1997.

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U.S. patents disclosing protease inhibitors for the treatment of HCV include, for example, U.S. Patent No. 6,004,933 to Spruce et al. which discloses a class of cysteine protease inhibitors for inhibiting HCV endopeptidase 2; U.S. Patent No. 5,990,276 to Zhang et al. which discloses synthetic inhibitors of hepatitis C virus NS3 protease; U.S. Patent No. 5,538,865 to Reyes et a; WO 02/008251 to Corvas International, Inc, and WO 02/08187 and WO 02/008256 to Schering Corporation. HCV inhibitor tripeptides are

disclosed in US Patent Nos. 6,534,523, 6,410,531, and 6,420,380 to Boehringer Ingelheim and WO 02/060926 to Bristol Myers Squibb. Diaryl peptides as NS3 serine protease inhibitors of HCV are disclosed in WO 02/48172 to Schering Corporation. Imidazoleidinones as NS3 serine protease inhibitors of HCV are disclosed in WO 02/08198 to Schering Corporation and WO 02/48157 to Bristol Myers Squibb. WO 98/17679 to Vertex Pharmaceuticals and WO 02/48116 to Bristol Myers Squibb also disclose HCV protease inhibitors.

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- 2) Thiazolidine derivatives which show relevant inhibition in a reverse-phase HPLC assay with an NS3/4A fusion protein and NS5A/5B substrate (Sudo K. et al., Antiviral Research, 1996, 32, 9-18), especially compound RD-1-6250, possessing a fused cinnamoyl moiety substituted with a long alkyl chain, RD4 6205 and RD4 6193;
- 3) Thiazolidines and benzanilides identified in Kakiuchi N. et al. J. EBS Letters 421, 217-220; Takeshita N. et al. Analytical Biochemistry, 1997, 247, 242-246;
- 4) A phenan-threnequinone possessing activity against protease in a SDS-PAGE and autoradiography assay isolated from the fermentation culture broth of Streptomyces sp., Sch 68631 (Chu M. et al., Tetrahedron Letters, 1996, 37, 7229-7232), and Sch 351633, isolated from the fungus *Penicillium griseofulvum*, which demonstrates activity in a scintillation proximity assay (Chu M. et al., Bioorganic and Medicinal Chemistry Letters 9, 1949-1952);
- 5) Helicase inhibitors (Diana G.D. et al., Compounds, compositions and methods for treatment of hepatitis C, U.S. Pat. No. 5,633,358; Diana G.D. et al., Piperidine derivatives, pharmaceutical compositions thereof and their use in the treatment of hepatitis C, PCT WO 97/36554);
- 6) Nucleotide polymerase inhibitors and gliotoxin (Ferrari R. et al. Journal of Virology, 1999, 73, 1649-1654), and the natural product cerulenin (Lohmann V. et al., Virology, 1998, 249, 108-118);
- 7) Antisense phosphorothioate oligodeoxynucleotides (S-ODN) complementary to sequence stretches in the 5' non-coding region (NCR) of the virus (Alt M. et al., Hepatology, 1995, 22, 707-717), or nucleotides 326-348 comprising the 3' end of the NCR and nucleotides 371-388 located in the core coding region of the HCV RNA (Alt M. et al., Archives of Virology, 1997, 142, 589-599; Galderisi U. et al., Journal of Cellular Physiology, 1999, 181, 251-257);

- 8) Inhibitors of IRES-dependent translation (Ikeda N et al., Agent for the prevention and treatment of hepatitis C, Japanese Patent Pub. JP-08268890; Kai Y. et al. Prevention and treatment of viral diseases, Japanese Patent Pub. JP-10101591);
- 9) Ribozymes, such as nuclease-resistant ribozymes (Maccjak, D. J. et al., Hepatology 1999, 30, abstract 995) and those disclosed in U.S. Patent No. 6,043,077 to Barber et al., and U.S. Patent Nos. 5,869,253 and 5,610,054 to Draper et al.; and

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- 10) Nucleoside analogs have also been developed for the treatment of Flaviviridae infections.
- 11) any of the compounds described by Idenix Pharmaceuticals in International Publication Nos. WO 01/90121 and WO 01/92282; .
- 12) Compound in other patent applications disclosing the use of certain nucleoside analogs to treat hepatitis C virus include: PCT/CA00/01316 (WO 01/32153; filed November 3, 2000) and PCT/CA01/00197 (WO 01/60315; filed February 19, 2001) filed by BioChem Pharma, Inc. (now Shire Biochem, Inc.); PCT/US02/01531 (WO 02/057425; filed January 18, 2002) and PCT/US02/03086 (WO 02/057287; filed January 18, 2002) filed by Merck & Co., Inc., PCT/EP01/09633 (WO 02/18404; published August 21, 2001) filed by Roche, and PCT Publication Nos. WO 01/79246 (filed April 13, 2001), WO 02/32920 (filed October 18, 2001) and WO 02/48165 by Pharmasset, Ltd.
- 13) PCT Publication No. WO 99/43691 to Emory University, entitled "2'-Fluoronucleosides" discloses the use of certain 2'-fluoronucleosides to treat HCV.
- 14) Other miscellaneous compounds including 1-amino-alkylcyclohexanes (U.S. Patent No. 6,034,134 to Gold et al.), alkyl lipids (U.S. Pat. No. 5,922,757 to Chojkier et al.), vitamin E and other antioxidants (U.S. Pat. No. 5,922,757 to Chojkier et al.), squalene, amantadine, bile acids (U.S. Pat. No. 5,846,964 to Ozeki et al.), N-(phosphonoacetyl)-L-aspartic acid, (U.S. Pat. No. 5,830,905 to Diana et al.), benzenedicarboxamides (U.S. Pat. No. 5,633,388 to Diana et al.), polyadenylic acid derivatives (U.S. Pat. No. 5,496,546 to Wang et al.), 2',3'-dideoxyinosine (U.S. Pat. No. 5,026,687 to Yarchoan et al.), benzimidazoles (U.S. Pat. No. 5,891,874 to Colacino et al.), plant extracts (U.S. Patent No. 5,837,257 to Tsai et al., U.S. Patent No. 5,725,859 to Omer et al., and U.S.

Patent No. 6,056,961), and piperidenes (U.S. Patent No. 5,830,905 to Diana et al.).

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15) Other compounds currently in preclinical or clinical development for treatment of hepatitis c virus include: Interleukin-10 by Schering-Plough, IP-501 by Interneuron, Merimebodib (VX-497) by Vertex, AMANTADINE® (Symmetrel) by Endo Labs Solvay, HEPTAZYME® by RPI, IDN-6556 by Idun Pharma., XTL-002 by XTL., HCV/MF59 by Chiron, CIVACIR® (Hepatitis C Immune Globulin) by NABI, LEVOVIRIN® by ICN/Ribapharm, VIRAMIDINE® by ICN/Ribapharm, ZADAXIN® (thymosin alpha-1) by Sci Clone, thymosin plus pegylated interferon by Sci Clone, CEPLENE® (histamine dihydrochloride) by Maxim, VX 950 / LY 570310 by Vertex/Eli Lilly, ISIS 14803 by Isis Pharmaceutical/Elan, IDN-6556 by Idun Pharmaceuticals, Inc., JTK 003 by AKROS Pharma, BILN-2061 by Boehringer Ingelheim, CellCept (mycophenolate mofetil) by Roche, T67, a \u03b3tubulin inhibitor, by Tularik, a therapeutic vaccine directed to E2 by Innogenetics, FK788 by Fujisawa Healthcare, Inc., IdB 1016 (Siliphos, oral silybin-phosphatdylcholine phytosome), RNA replication inhibitors (VP50406) by ViroPharma/Wyeth, therapeutic vaccine by Intercell, therapeutic vaccine by Epimmune/Genencor, IRES inhibitor by Anadys, ANA 245 and ANA 246 by Anadys, immunotherapy (Therapore) by Avant, protease inhibitor by Corvas/SChering, helicase inhibitor by Vertex, fusion inhibitor by Trimeris, T cell therapy by CellExSys, polymerase inhibitor by Biocryst, targeted RNA chemistry by PTC Therapeutics, Dication by Immtech, Int., protease inhibitor by Agouron, protease inhibitor by Chiron/Medivir, antisense therapy by AVI BioPharma, antisense therapy by Hybridon, hemopurifier by Aethlon Medical, therapeutic vaccine by Merix, protease inhibitor by Bristol-Myers Squibb/Axys, Chron-VacC, a therapeutic vaccine, by Tripep, UT 231B by United Therapeutics, protease, helicase and polymerase inhibitors by Genelabs Technologies, IRES inhibitors by Immusol, R803 by Rigel Pharmaceuticals, INFERGEN® (interferon alphacon-1) by InterMune, OMNIFERON® (natural interferon) by Viragen, ALBUFERON® by Human Genome Sciences, REBIF® (interferon beta-1a) by Ares-Serono, Omega Interferon by BioMedicine, Oral Interferon Alpha by Amarillo Biosciences, interferon gamma, interferon tau, and Interferon gamma- 1b by InterMune.

VI. Pharmaceutical Compositions

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Hosts, including humans, infected with pestivirus, flavivirus, HCV infection, or any other condition described herein, or another organism replicating through a RNA-dependent RNA viral polymerase, or for treating any other disorder described herein, can be treated by administering to the patient an effective amount of the active compound or a pharmaceutically acceptable prodrug or salt thereof in the presence of a pharmaceutically acceptable carrier or dilutent. The active materials can be administered by any appropriate route, for example, orally, parenterally, intravenously, intradermally, subcutaneously, or topically, in liquid or solid form.

A preferred dose of the compound for pestivirus, flavivirus or HCV will be in the range from about 1 to 50 mg/kg, preferably 1 to 20 mg/kg, of body weight per day, more generally 0.1 to about 100 mg per kilogram body weight of the recipient per day. Lower doses may be preferable, for example doses of 0.5-100 mg, 0.5-50 mg, 0.5-10 mg, or 0.5-5 mg per kilogram body weight per day. Even lower doses may be useful, and thus ranges can include from 0.1-0.5 mg per kilogram body weight per day. The effective dosage range of the pharmaceutically acceptable salts and prodrugs can be calculated based on the weight of the parent nucleoside to be delivered. If the salt or prodrug exhibits activity in itself, the effective dosage can be estimated as above using the weight of the salt or prodrug, or by other means known to those skilled in the art.

The compound is conveniently administered in unit any suitable dosage form, including but not limited to one containing 7 to 3000 mg, preferably 70 to 1400 mg of active ingredient per unit dosage form. An oral dosage of 50-1000 mg is usually convenient, including in one or multiple dosage forms of 50, 100, 200, 250, 300, 400, 500, 600, 700, 800, 900 or 1000 mgs. Lower doses may be preferable, for example from 10-100 or 1-50 mg. Also contemplated are doses of 0.1-50 mg, or 0.1-20 mg or 0.1-10.0 mg. Furthermore, lower doses may be utilized in the case of administration by a non-oral route, as, for example, by injection or inhalation.

Ideally the active ingredient should be administered to achieve peak plasma concentrations of the active compound of from about 0.2 to 70 μ M, preferably about 1.0 to 10 μ M. This may be achieved, for example, by the intravenous injection of a 0.1 to 5% solution of the active ingredient, optionally in saline, or administered as a bolus of the active ingredient.

The concentration of active compound in the drug composition will depend on absorption, inactivation and excretion rates of the drug as well as other factors known to those of skill in the art. It is to be noted that dosage values will also vary with the severity of the condition to be alleviated. It is to be further understood that for any particular subject, specific dosage regimens should be adjusted over time according to the individual need and the professional judgment of the person administering or supervising the administration of the compositions, and that the concentration ranges set forth herein are exemplary only and are not intended to limit the scope or practice of the claimed composition. The active ingredient may be administered at once, or may be divided into a number of smaller doses to be administered at varying intervals of time.

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A preferred mode of administration of the active compound is oral. Oral compositions will generally include an inert diluent or an edible carrier. They may be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and used in the form of tablets, troches, or capsules. Pharmaceutically compatible binding agents, and/or adjuvant materials can e included as part of the composition.

The tablets, pills, capsules, troches and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring. When the dosage unit form is a capsule, it can contain, in addition to material of the above type, a liquid carrier such as a fatty oil. In addition, dosage unit forms can contain various other materials which modify the physical form of the dosage unit, for example, coatings of sugar, shellac, or other enteric agents.

The compound can be administered as a component of an elixir, suspension, syrup, wafer, chewing gum or the like. A syrup may contain, in addition to the active compounds, sucrose as a sweetening agent and certain preservatives, dyes and colorings and flavors.

The compound or a pharmaceutically acceptable prodrug or salts thereof can also be mixed with other active materials that do not impair the desired action, or with materials that supplement the desired action, such as antibiotics, antifungals, anti-inflammatories, or other antivirals, including other nucleoside compounds. Solutions or suspensions used for parenteral, intradermal, sucutaneous, or topical application can include the following

components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediaminetetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. The parental preparation can be enclosed in ampoules, disposable syringes or multiple dose vials made of glass or plastic.

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If administered intravenously, preferred carriers are physiological saline or phosphate buffered saline (PBS).

In a preferred embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation.

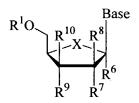
Liposomal suspensions (including liposomes targeted to infected cells with monoclonal antibodies to viral antigens) are also preferred as pharmaceutically acceptable carriers. These may be prepared according to methods known to those skilled in the art, for example, as described in U.S. Patent No. 4,522,811 (which is incorporated herein by reference in its entirety). For example, liposome formulations may be prepared by dissolving appropriate lipid(s) (such as stearoyl phosphatidyl ethanolamine, stearoyl phosphatidyl choline, arachadoyl phosphatidyl choline, and cholesterol) in an inorganic solvent that is then evaporated, leaving behind a thin film of dried lipid on the surface of the container. An aqueous solution of the active compound or its monophosphate, diphosphate, and/or triphosphate derivatives is then introduced into the container. The container is then swirled by hand to free lipid material from the sides of the container and to disperse lipid aggregates, thereby forming the liposomal suspension.

VII. Processes for the Preparation of Active Compounds

The nucleosides of the present invention can be synthesized by any means known in the art. In particular, the synthesis of the present nucleosides can be achieved by either alkylating the appropriately modified sugar, followed by glycosylation or glycosylation followed by alkylation of the nucleoside. The following non-limiting embodiments illustrate some general methodology to obtain the nucleosides of the present invention.

A. General Synthesis of 1'-C-Branched Nucleosides

1'-C-Branched ribonucleosides of the following structure:



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wherein Base, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, R¹⁰, Y, W¹, W², W³, X, X¹, X² and X³ are as defined herein can be prepared by one of the following general methods.

1) Modification from the lactone

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The key starting material for this process is an appropriately substituted lactone. The lactone can be purchased or can be prepared by any known means including standard epimerization, substitution and cyclization techniques. The lactone can be optionally protected with a suitable protecting group, preferably with an acyl or silyl group, by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991. The protected lactone can then be coupled with a suitable coupling agent, such as an organometallic carbon nucleophile, such as a Grignard reagent, an organolithium, lithium dialkylcopper or R⁶-SiMe₃ in TBAF with the appropriate non-protic solvent at a suitable temperature, to give the 1'-alkylated sugar.

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The optionally activated sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend Chemistry of Nucleosides and Nucleotides, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature.

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Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991.

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In a particular embodiment, the 1'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in **Scheme 1**. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene *et al.* Protective

Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

Scheme 1 HO 1) R^{6} -M Optional 2) Optional Protection $\frac{1}{2}$ ÒН Activation 1) Coupling 2) Optional Deprotection 1) Optional Base Base HO Protection 2) Optional ÓН Reduction Optional Deprotection

2. Alternative method for the preparation of 1'-C-branched nucleosides

Base

The key starting material for this process is an appropriately substituted hexose. The hexose can be purchased or can be prepared by any known means including standard epimerization (e.g. via alkaline treatment), substitution and coupling techniques. The hexose can be selectively protected to give the appropriate hexa-furanose, as taught by Townsend Chemistry of Nucleosides and Nucleotides, Plenum Press, 1994.

The 1'-hydroxyl can be optionally activated to a suitable leaving group such as an acyl group or a halogen via acylation or halogenation, respectively. The optionally activated sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend Chemistry of Nucleosides and Nucleotides, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature. Alternatively, a halo-sugar can be coupled to a silylated base with the presence of trimethylsilyltriflate.

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The 1'-CH₂-OH, if protected, can be selectively deprotected by methods well known in the art. The resultant primary hydroxyl can be functionalized to yield various C-branched nucleosides. For example, the primary hydroxyl can be reduced to give the methyl, using a suitable reducing agent. Alternatively, the hydroxyl can be activated prior to reduction to facilitate the reaction; i.e. via the Barton reduction. In an alternate embodiment, the primary hydroxyl can be oxidized to the aldehyde, then coupled with a carbon nucleophile, such as a Grignard reagent, an organolithium, lithium dialkylcopper or R⁶-SiMe₃ in TBAF with the appropriate non-protic solvent at a suitable temperature.

In a particular embodiment, the 1'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in **Scheme 2**. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

Scheme 2

In addition, the L-enantiomers corresponding to the compounds of the invention can be prepared following the same general methods (1 or 2), beginning with the corresponding L-sugar or nucleoside L-enantiomer as starting material.

B. General Synthesis of 2'-C-Branched Nucleosides

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2'-C-Branched ribonucleosides of the following structure:

wherein Base, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁹, R¹⁰, Y, W¹, W², W³, X, X¹, X² and X³ are as defined herein can be prepared by one of the following general methods.

1. Glycosylation of the nucleobase with an appropriately modified sugar

The key starting material for this process is an appropriately substituted sugar with a 2'-OH and 2'-H, with the appropriate leaving group (LG), for example an acyl group or a halogen. The sugar can be purchased or can be prepared by any known means including standard epimerization, substitution, oxidation and reduction techniques. The substituted sugar can then be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 2'-modified sugar. Possible oxidizing agents are Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO₂, ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl₂-pyridine, H₂O₂-ammonium molybdate, NaBrO₂-CAN, NaOCl in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum *t*-butoxide with another ketone) and *N*-bromosuccinimide.

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Then coupling of an organometallic carbon nucleophile, such as a Grignard reagent, an organolithium, lithium dialkylcopper or R⁶-SiMe₃ in TBAF with the ketone with the appropriate non-protic solvent at a suitable temperature, yields the 2'-alkylated sugar. The alkylated sugar can be optionally protected with a suitable protecting group, preferably with an acyl or silyl group, by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991.

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The optionally protected sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend Chemistry of Nucleosides and Nucleotides, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature. Alternatively, a halo-sugar can be coupled to a silylated base with the presence of trimethylsilyltriflate.

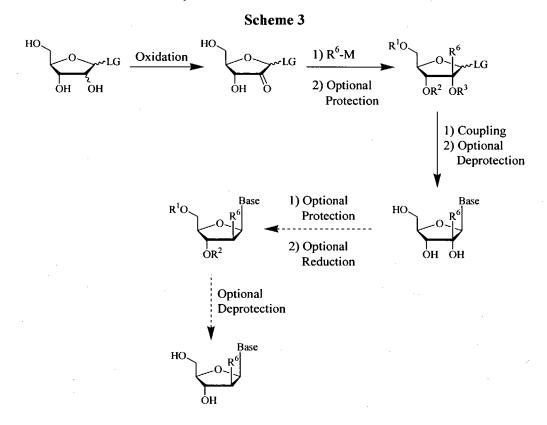
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Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991.

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In a particular embodiment, the 2'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in **Scheme 3**. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene *et al.* Protective

Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.



2. Modification of a pre-formed nucleoside

The key starting material for this process is an appropriately substituted nucleoside with a 2'-OH and 2'-H. The nucleoside can be purchased or can be prepared by any known means including standard coupling techniques. The nucleoside can be optionally protected with suitable protecting groups, preferably with acyl or silyl groups, by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991.

The appropriately protected nucleoside can then be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 2'-modified sugar. Possible oxidizing agents are Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO₂, ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl₂-pyridine, H₂O₂-ammonium molybdate, NaBrO₂-CAN, NaOCl

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in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum *t*-butoxide with another ketone) and *N*-bromosuccinimide.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by GreeneGreene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 2'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in **Scheme 4**. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

Scheme 4 Base Base 1) Optional HO RIO. R^6-M Protection 2) Oxidation Optional Deprotection 1) Optional Base Base HO Protection 2) Optional Reduction Optional Deprotection Base HO

In another embodiment of the invention, the L-enantiomers are desired. Therefore, the L-enantiomers can be corresponding to the compounds of the invention can be prepared following the same foregoing general methods, beginning with the corresponding L-sugar or nucleoside L-enantiomer as starting material.

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C. General Synthesis of 3'-C-Branched Nucleosides

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3'-C-Branched ribonucleosides of the following structure:

wherein Base, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, Y, W¹, W², W³, X, X¹, X² and X³ are as defined herein can be prepared by one of the following general methods.

1 Glycosylation of the nucleobase with an appropriately modified sugar

The key starting material for this process is an appropriately substituted sugar with a 3'-OH and 3'-H, with the appropriate leaving group (LG), for example an acyl group or a halogen. The sugar can be purchased or can be prepared by any known means including standard epimerization, substitution, oxidation and reduction techniques. The substituted sugar can then be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 3'-modified sugar. Possible oxidizing agents are Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO₂, ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl₂-pyridine, H₂O₂-ammonium molybdate, NaBrO₂-CAN, NaOCl in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum *t*-butoxide with another ketone) and *N*-bromosuccinimide.

Then coupling of an organometallic carbon nucleophile, such as a Grignard reagent, an organolithium, lithium dialkylcopper or R⁶-SiMe₃ in TBAF with the ketone with the appropriate non-protic solvent at a suitable temperature, yields the 3'-C-branched sugar. The 3'-C-branched sugar can be optionally protected with a suitable protecting group, preferably with an acyl or silyl group, by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991.

The optionally protected sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend Chemistry of Nucleosides and Nucleotides, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or

trimethylsilyltriflate in the appropriate solvent at a suitable temperature. Alternatively, a halo-sugar can be coupled to a silylated base with the presence of trimethylsilyltriflate.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 3'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in **Scheme 5**. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

Scheme 5

2. Modification of a pre-formed nucleoside

The key starting material for this process is an appropriately substituted nucleoside with a 3'-OH and 3'-H. The nucleoside can be purchased or can be prepared by any known means including standard coupling techniques. The nucleoside can be optionally protected with suitable protecting groups, preferably with acyl or silyl groups, by methods well

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known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991.

The appropriately protected nucleoside can then be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 2'-modified sugar. Possible oxidizing agents are Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO₂, ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl₂-pyridine, H₂O₂-ammonium molybdate, NaBrO₂-CAN, NaOCl in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum *t*-butoxide with another ketone) and *N*-bromosuccinimide.

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Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 3'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in **Scheme 6**. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

Scheme 6

In another embodiment of the invention, the L-enantiomers are desired. Therefore, the L-enantiomers can be corresponding to the compounds of the invention can be prepared following the same foregoing general methods, beginning with the corresponding L-sugar or nucleoside L-enantiomer as starting material.

D. General Synthesis of 4'-C-Branched Nucleosides

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4'-C-Branched ribonucleosides of the following structure:

wherein Base, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, R¹⁰, Y, W¹, W², W³, X, X¹, X² and X³ are as defined herein can be prepared by one of the following general methods.

1. Modification from the pentodialdo-furanose

The key starting material for this process is an appropriately substituted pentodialdofuranose. The pentodialdo-furanose can be purchased or can be prepared by any known means including standard epimerization, substitution and cyclization techniques.

In a preferred embodiment, the pentodialdo-furanose is prepared from the appropriately substituted hexose. The hexose can be purchased or can be prepared by any

known means including standard epimerization (e.g. via alkaline treatment), substitution and coupling techniques. The hexose can be either in the furanose form, or cyclized via any means known in the art, such as methodology taught by Townsend <u>Chemistry of Nucleosides and Nucleotides</u>, Plenum Press, 1994, preferably by selectively protecting the hexose, to give the appropriate hexafuranose.

The 4'-hydroxymethylene of the hexafuranose then can be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 4'-aldo-modified sugar. Possible oxidizing agents are Swern reagents, Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO₂, ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl₂-pyridine, H₂O₂-ammonium molybdate, NaBrO₂-CAN, NaOCl in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum *t*-butoxide with another ketone) and *N*-bromosuccinimide, though preferably using H₃PO₄, DMSO and DCC in a mixture of benzene/pyridine at room temperature.

Then, the pentodialdo-furanose can be optionally protected with a suitable protecting group, preferably with an acyl or silyl group, by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991. In the presence of a base, such as sodium hydroxide, the protected pentodialdo-furanose can then be coupled with a suitable electrophilic alkyl, halogeno-alkyl (i.e. CF₃), alkenyl or alkynyl (i.e. allyl), to obtain the 4'-alkylated sugar. Alternatively, the protected pentodialdo-furanose can be coupled with the corresponding carbonyl, such as formaldehyde, in the presence of a base, such as sodium hydroxide, with the appropriate polar solvent, such as dioxane, at a suitable temperature, which can then be reduced with an appropriate reducing agent to give the 4'-alkylated sugar. In one embodiment, the reduction is carried out using PhOC(S)Cl, DMAP, preferably in acetonitrile at room temperature, followed by treatment of ACCN and TMSS refluxed in toluene.

The optionally activated sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend <u>Chemistry of Nucleosides and Nucleotides</u>, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 4'-C-branched ribonucleoside is desired. Alternatively, deoxyribonucleoside is desired. To obtain these deoxyribonucleosides, a formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene *et al.* Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

In another embodiment of the invention, the L-enantiomers are desired. Therefore, the L-enantiomers can be corresponding to the compounds of the invention can be prepared following the same foregoing general methods, beginning with the corresponding L-pentodialdo-furanose as starting material.

E. General Synthesis of 2' and/or 3'-Prodrugs

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The key starting material for this process is an appropriately substituted 1', 2', 3' or 4'-branched β-D or β-L nucleosides. The branched nucleoside can be purchased or can be prepared by any known means including the techniques disclosed herein. The branched nucleoside can be optionally protected with a suitable protecting group, preferably with a silyl group, by methods well known to those skilled in the art, as taught by Greene et al. Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991. The protected branched nucleoside can then be coupled with a suitable acyl doner, such as an acyl chloride and/or an acyl anhydride with the appropriate protic or aprotic solvent at a suitable temperature, to give the 2' and/or 3' prodrug of 1', 2', 3' or 4'-branched β -D or β -L nucleoside. Alternatively, the protected branched nucleoside can then be coupled with a suitable acyl, such as a carboxylic acid, such as alkanoic acid and/or amino acid residue, optionally with a suitable coupling agent, with the appropriate aprotic solvent at a suitable temperature, to give the 2' and/or 3' prodrug of 1', 2', 3' or 4'-branched β -D or β -L nucleoside. Possible coupling reagents are any reagents that promote coupling, including but are not limiting to, Mitsunobu reagents (e.g. diisopropyl azodicarboxylate and diethyl azodicarboxylate) with triphenylphosphine or various carbodiimides.

For example, simple amino-alcohols can be esterified using acid chlorides in refluxing acetonitrile-benzene mixture (See **Scheme 7** below: *Synthetic Communications*, **1978**, 8(5), 327-333; hereby incorporated by reference). Alternatively, esterification can be

achieved using an anhydride, as described in *J. Am. Chem. Soc.*, **1999**, *121*(24), 5661-5664, which is hereby incorportated by reference. See **Figures 2**, **3** and **4**.

Scheme 7

ACN: acetonitrile

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The present invention is described by way of illustration, in the following examples. It will be understood by one of ordinary skill in the art that these examples are in no way limiting and that variations of detail can be made without departing from the spirit and scope of the present invention.

EXAMPLE 1: Preparation of 1'-C-methylriboadenine via 6-amino-9-(1-deoxy-β-D-psicofuranosyl)purine

Melting points were determined on a Mel-temp II apparatus and are uncorrected. NMR spectra were recorded on a Bruker 400 AMX spectrometer at 400 MHz for ¹H NMR and 100 MHz for ¹³C NMR with TMS as internal standard. Chemical shifts (8) are reported in parts per million (ppm), and signals are reported as s (singlet), d (doublet), t (triplet), q (quartet), m (multiplet), or bs (broad singlet). IR spectra were measured on a Nicolet 510P FT-IR spectrometer. Mass spectra were recorded on a Micromass Autospec high-resolution mass spectrometer. TLC were performed on Uniplates (silica gel) purchased from Analtech Co. Column chromatography was performed using either silica gel-60 (220-440 mesh) for flash chromatography or silica gel G (TLC grade, > 440 mesh) for vacuum flash column chromatography. UV spectra were obtained on a Beckman DU 650 spectrophotometer. Elemental analysis was performed by Atlantic Microlab, Inc., Norcross, GA, or Galbraith Laboratories, Inc., Knoxville, TN. HPLC was performed with a Waters HPLC system (Millipore Corporation, Milford, MA) equipped with a Model 600 controller, a Model 996 photodiode array detector and a Model 717 plus autosampler. Millennium 2010 software was used for system control, data acquisition and processing. A chiralyser polarimetric

detector, Perkin-Elmer Model 241MC polarimeter (Wilton, CT), was used for the determination of optical rotations.

Synthesis of 1'-C-methylribo-8-methyladenine

The title compound could also be prepared according to a published procedure (J. Farkas, and F. Sorm, "Nucleic acid components and their analogues. XCIV. Synthesis of 6-amino-9-(1-deoxy-β-D-psicofuranosyl)purine" Collect. Czech. Chem. Commun. 1967, 32, 2663-2667; J. Farkas", Collect. Czech. Chem. Commun. 1966, 31, 1535) (Scheme 8).

Scheme 8

In a similar manner, but using the appropriate sugar and purine bases, the following nucleosides of Formula XXIV are prepared.

wherein R^1 , R^2 , R^3 , X^1 , X^2 , and Y are defined in Table 1.

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Alternatively, the following nucleosides of Formula XXV are prepared, using the appropriate sugar and pyrimidine bases.

$$X^{2}$$
 X^{1}
 X^{1}
 X^{1}
 X^{1}
 X^{2}
 X^{2

5 wherein R^1 , R^2 , R^3 , X^1 , X^2 , and Y are defined in Table 2.

Alternatively, the following nucleosides of Formula XXVI are prepared, using the appropriate sugar and pyrimidine or purine bases.

$$R^{1}O$$
 X
 R^{6}
 QR^{2}
 QR^{3}
 QR^{3}

wherein R¹, R², R³, R⁶, X, and Base are defined in Table 3.

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Alternatively, the following nucleosides of Formula XXVII are prepared, using the appropriate sugar and pyrimidine or purine bases.

$$R^{1}O$$
 X
 R^{6}
 $(XXVII)$

wherein R¹, R², R⁶, X, and Base are defined in Table 4.

Alternatively, the following nucleosides of Formula XXVIII are prepared, using the appropriate sugar and pyrimidine or purine bases.

$$R^{1}O$$
 $R^{2}O$
(XXVIII)

wherein R¹, R², R⁶, X, and Base are defined in Table 5.

Alternatively, the following nucleosides of Formula XXIX are prepared, using the appropriate sugar and pyrimidine or purine bases.

$$R^{10}$$
 X R^{8} R^{6} R^{9} R^{7} R^{8}

wherein R¹, R⁶, R⁷, R⁸, X, R⁹, R¹⁰, and Base are defined in Table 6.

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EXAMPLE 2: Preparation Of 2'-C-Methylribo-8-Methyladenine

The title compound was prepared according to a published procedure (R.E. Harry-O'kuru, J.M. Smith, and M.S. Wolfe, "A short, flexible route toward 2'-C-branched ribonucleosides", *J.Org. Chem.* 1997, <u>62</u>, 1754-1759) (Scheme 9).

Scheme 9

BzO OH BzO OBz BzO OBz BzO OBz

R=CH₃

BzO OBz BzO OBz BzO OR OBz NHBz

NHBz

NHBz

NHBz

NHBz

NHBz

(a) Dess-Martin periodinane; (b) MeMgBr / TiCl₄; (c) BzCl, DMAP, Et₃N; (d) bis(trimethylsilyl)acetamide, N⁶-benzoyl adenine, TMSOTf; (e) NH₃ / MeOH

The 3'-prodrug of the 2'-branched nucleoside was prepared according to published procedure (Synthetic Communications, 1978, 8(5), 327-333; J. Am. Chem. Soc., 1999, 121(24), 5661-5664). Alternatively, the 2'-branched nucleoside can be esterified without protection (Scheme 9b). Carbonyldiimidazole (377 mg, 2.33 mmol) was added to a solution of N-(tert-butoxycarbonyl)-L-valine (507 mg, 2.33 mmol) in 15 mL of anhydrous tetrahydrofuran. The mixture was stirred at 20 °C for one hour and at 50 °C for 10 minutes and then added to a solution of 4-Amino-1-(3,4-dihydroxy-5-hydroxymethyl-3-methyltetrahydro-furan-2-yl)-1H-pyrimidine-2-one (500 1.95 mmol), mg, (dimethylamino)pyridine (25 mg, 0.195 mmol), triethylamine (5 mL) in anhydrous N,Ndimethylformamide (10 mL), which is also stirring at 50 °C. The reaction mixture was stirred at 50 °C for one hour and then examined by HPLC. HPLC analysis indicated the formation of 52% of the desired ester, 17% of starting material in addition to undesired byproducts. The 3'-OH of 4-amino-1-(3,4-dihydroxy-5-hydroxymethyl-3-methyl-tetrahydrofuran-2-yl)-1H-pyrimidine-2-one tends to react selectively when coupled with BOC-Val.

In a similar manner, but using the appropriate sugar and purine bases, the following nucleosides of Formula XXX are prepared.

wherein R^1 , R^2 , R^3 , X^1 , X^2 , and Y are defined in Table 7.

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Alternatively, the following nucleosides of Formula XXXI are prepared, using the appropriate sugar and pyrimidine bases.

$$X^2$$
 X^1
 X^1
 X^1
 X^1
 X^2
 X^1
 X^1
 X^2
 X^1
 X^2
 X^1
 X^2
 X^1
 X^2
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 X^1
 X^2
 X^2
 X^1
 X^2
 X^2
 X^1
 X^2
 X^2

wherein R^1 , R^2 , R^3 , X^1 , X^2 , and Y are defined in Table 8.

Alternatively, the following nucleosides of Formula XXXII are prepared, using the appropriate sugar and pyrimidine or purine bases.

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wherein R¹, R², R³, R⁶, X, and Base are defined in Table 9.

Alternatively, the following nucleosides of Formula XXXIII are prepared, using the appropriate sugar and pyrimidine or purine bases.

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wherein R¹, R², R⁶, X, and Base are defined in Table 10.

Alternatively, the following nucleosides of Formula XXXIV are prepared, using the appropriate sugar and pyrimidine or purine bases.

$$R^{1}O$$
 $R^{2}O$
 R^{6}
 $(XXXIV)$

wherein R¹, R², R⁶, X, and Base are defined in Table 11.

Alternatively, the following nucleosides of Formula XXXV are prepared, using the appropriate sugar and pyrimidine or purine bases.

$$R^{10}$$
 R^{10}
 R

wherein R¹, R⁶, R⁷, R⁹, R¹⁰, X, and Base are defined in Table 12.

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EXAMPLE 3: Preparation Of 3'-C-Methylribo-8-Methyladenine

The title compound can be prepared according to a published procedure (R.F. Nutt, M.J. Dickinson, F.W. Holly, and E. Walton, "Branched-chain sugar nucleosides. III. 3'-C-methyladenine", *J.Org. Chem.* **1968**, <u>33</u>, 1789-1795) (Scheme 10).

Scheme 10

(a) RuO₂ / NaIO₄; (b) MeMgI / TiCl₄; (c) HCl / MeOH / H₂O; (d) BzCl / pyridine; (e) AcBr, HBr / AcOH; (f) chloromercuri-6-benzamidopurine; (g) NH₃ / MeOH.

In a similar manner, but using the appropriate sugar and purine bases, the following nucleosides of Formula XXXVI are prepared.

wherein R¹, R², R³, X¹, X², and Y are defined in Table 13.

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Alternatively, the following nucleosides of Formula XXXVII are prepared, using the appropriate sugar and pyrimidine bases.

$$X^{2}$$
 X^{1}
 X^{1

(XXXV

wherein R¹, R², R³, X¹, X², and Y are defined in Table 14.

Alternatively, the following nucleosides of Formula XXXVIII are prepared, using the appropriate sugar and pyrimidine or purine bases.

$$R^{1}O$$
 R^{6}
 R^{6}
 R^{6}
 R^{6}
 R^{6}
 R^{6}
 R^{6}
 R^{6}

(XXXVIII)

wherein R^1 , R^2 , R^3 , R^6 , X, and Base are defined in Table 15.

Alternatively, the following nucleosides of Formula XXXIX are prepared, using the appropriate sugar and pyrimidine or purine bases.

$$R^{1}O$$
 R^{6}
 R^{6}
 R^{6}
 R^{2}
 R^{2}
 R^{3}
 R^{4}
 R^{5}
 $R^{$

wherein R¹, R², R⁶, X, and Base are defined in Table 16.

Alternatively, the following nucleosides of Formula XXXX are prepared, using the appropriate sugar and pyrimidine or purine bases.

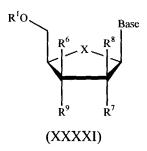
$$R^{1}O$$
 R^{6}
 OR^{2}
 $(XXXX)$

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wherein R¹, R², R⁶, X, and Base are defined in Table 17.

Alternatively, the following nucleosides of Formula XXXXI are prepared, using the appropriate sugar and pyrimidine or purine bases.



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wherein R¹, R⁶, R⁷, R⁸, R⁹, X, and Baseare defined in Table 18.

EXAMPLE 4: Preparation Of 1-O-Methyl-2,3-O-Isopropylidene-β-D-

RIBOFURANOSE - (1)

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The title compound can be prepared according to a published procedure (Leonard, N. J.; Carraway, K. L. "5-Amino-5-deoxyribose derivatives. Synthesis and use in the preparation of "reversed" nucleosides" J. Heterocycl. Chem. 1966, 3, 485-489).

A solution of 50.0 g (0.34 mole) of dry D-ribose in 1.0 L of acetone, 100 mL of 2,2-dimethoxypropane, 200 mL of methanol containing 20 mL of methanol saturated with hydrogen chloride at 0°C was stirred overnight at room temperature. The resulting solution was neutralized with pyridine and evaporated under reduced pressure. The resulting oil was partitioned between 400 mL of water and 400 mL of methylene chloride. The water layer was extracted twice with methylene chloride (400 mL). The combined organic extracts were dried over sodium sulfate and evaporated under reduced pressure. The residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (1-2%) in methylene chloride] to give pure 1 (52.1 g, 75%) as a yellow syrup. 1 H-NMR (CDCl₃): δ 5.00 (s, 1H, H-1), 4.86 (d, 1H, H-2, $J_{2-3} = 5.9$ Hz), 4.61 (d, 1H, H-3, $J_{3-2} = 5.9$ Hz), 4.46 (t, 1H, H-4, $J_{4-5} = 2.7$ Hz), 3.77-3.61 (m, 2H, H-5 and H-5'), 3.46 (s, 1H, OCH₃), 3.0-2.4 (br s, 1H, OH-5), 1.51 (s, 3H CH₃), 1.34 (s, 3H CH₃); MS (matrix GT): FAB>0 m/z 173 (M-OCH₃)⁺.

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EXAMPLE 5: PREPARATION OF 1-O-METHYL-2,3-O-ISOPROPYLIDENE-β-D-PENTODIALDO-RIBOFURANOSE - (2)

The title compound can be prepared according to a published procedure (Jones, G. H.; Moffatt, J. G. Oxidation of carbohydrates by the sulfoxide-carbodiimide and related methods. Oxidation with dicyclohexylcarbodiimide-DMSO, diisopropylcarbodiimide-DMSO, acetic anhydride-DMSO, and phosphorus pentoxide-DMSO: in *Methods in Carbohydrate Chemistry*; Whisler, R. L. and Moffatt, J. L. Eds; Academic Press: New York, 1972; 315-322).

with anhydrous Compound 1 was co-evaporated twice pyridine. Dicyclohexylcarbodi-imide (DCC, 137.8 g, 0.67 mol) was added to a solution of 1 (68.2 g, 0.33 mole) in anhydrous benzene (670 mL), DMSO (500 mL) and pyridine (13.4 mL). To the resulting solution, cooled to 0°C, was added a solution of anhydrous crystalline orthophosphoric acid (16.4 g, 0.167 mmol) in anhydrous DMSO (30 mL). The mixture was stirred for 1.5 hours at 0°C and 18 hours at room temperature under argon atmosphere, diluted with ethyl acetate (1000 mL). A solution of oxalic acid dihydrate (63.1 g, 038 mol) in DMSO (30 mL) was added and the reaction mixture was stirred at room temperature during 1 hour and then filtered to eliminate precipitated dicyclohexylurea (DCU). The filtrate was concentrated to a volume of about 600 mL under reduced pressure and neutralized with a saturated aqueous sodium hydrogen carbonate solution (400 mL). Brine

(200 mL) was added and the organic layer was extracted with ethyl acetate (4x 1000 mL). The combined organic layers were concentrated to a volume of about 2000 mL, washed with a saturated aqueous sodium hydrogen carbonate solution (2x 700 mL), and with brine (2x 700 mL) before being dried over sodium sulfate and evaporated under reduced pressure. A small fraction of the crude residue was purified on silica gel chromatography [eluent: chloroform/ethyl ether, 8:2] in order to confirm the structure of 2 which was obtained as a pale yellow solid. 1 H-NMR (CDCl₃): δ 9.61 (s, 1H, H-5), 5.12 (s, 1H, H-1), 5.08 (d, 1H, H-2, $J_{2-3} = 5.9$ Hz), 4.53 (d, 1H, H-3, $J_{3-2} = 6.0$ Hz), 4.51 (s, 1H, H-4), 3.48 (s, 1H, OCH₃), 1.56 (s, 3H CH₃), 1.36 (s, 3H CH₃); MS (matrix GT): FAB>0 m/z 203 (M+H)⁺, 171 (M-OCH₃)⁺.

EXAMPLE 6: Preparation of 4-C-Hydroxymethyl-1-O-methyl-2,3-O-isopropylidene-β-D-ribofuranose - (3)

The title compound can be prepared according to a published procedure (Leland, D. L.; Kotick, M. P. "Studies on 4-C-(hydroxymethyl)pentofuranoses. Synthesis of 9-[4-C-(hydroxymethyl)-a-L-threo-pentofuranosyl]adenine" <u>Carbohydr. Res.</u> 1974, 38, C9-C11; Jones, G. H.; Taniguchi, M.; Tegg, D.; Moffatt, J. G. "4'-substituted nucleosides. 5. Hydroxylation of nucleoside 5'-aldehydes" <u>J. Org. Chem.</u> 1979, 44, 1309-1317; Gunic, E.; Girardet, J.-L.; Pietrzkowski, Z.; Esler, C.; Wang, G. "Synthesis and cytotoxicity of 4'-C-and 5'-C-substituted Toyocamycins" <u>Bioorg. Med. Chem.</u> 2001, 9, 163-170).

To a solution of the crude material (2) obtained above and 37% aqueous formaldehyde (167 mL) in dioxane (830 mL) was added aqueous sodium hydroxyde (2N, 300 mL). The mixture was stirred at room temperature for 4 hours and neutralized by addition of Dowex 50 W X 2 (H⁺ form). The resin was filtered, washed with methanol, and the combined filtrates were concentrated to dryness and coevaporated several times with absolute ethanol. Sodium formate which was precipitated from absolute ethanol was removed by filtration, the filtrate was concentrated to dryness and the residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (0-4%) in chloroform] to give pure 3 (42.2 g, 54% from 1), which was recrystallized from cyclohexane. Mp = 94-95 (dec.) (lit.94-96.5; 97-98 : Refs :3,4), ¹H-NMR (DMSO-d₆): δ 4.65 (s, 1H, H-1), 4.44-4.37 (m, 3H, H-2, H-3 and OH-6), 4.27 (t, 1H, OH-5, J = 5.6 Hz, J = 6.0 Hz), 3.42-3.34 (m, 2H, H-5 and H-6) 3.29 (dd, 1H, H-5', J_{5'-OH} = 5.4 Hz, J5-5' = 11.4 Hz), 3.11 (dd, 1H, H-6', J_{6'-OH} = 5.7 Hz, J6-6' = 10.9 Hz), 3.03 (s, 3H, OCH₃), 1.48 (s, 3H

CH₃), 1.05 (s, 3H CH₃); MS (matrix GT): FAB>0 m/z 469 (2M+H)⁺, 235 (M+H)⁺, 203 (M-OCH₃)+ FAB<0 m/z 233 (M-H)⁻.

EXAMPLE 7: Preparation of 6-O-Monomethoxytrityl-4-C-hydroxymethyl-1-O-methyl-2,3-O-isopropylidene-β-D-ribofuranose - (4)

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The title compound can be prepared according to a published procedure (Gunic, E.; Girardet, J.-L.; Pietrzkowski, Z.; Esler, C.; Wang, G. "Synthesis and cytotoxicity of 4'-C- and 5'-C-substituted Toyocamycins" <u>Bioorg. Med. Chem.</u> **2001**, *9*, 163-170).

To a solution of 3 (41.0 g, 175 mmol) in pyridine (700 ml) was added by portions dimethoxytrityl chloride (60.5 g, 178 mmol) at +4°C. The reaction mixture was stirred for 3 hours at room temperature. After addition of methanol, the reaction mixture was concentrated (200 ml) and then dissolved with ethyl acetate (2 L). The organic layer was washed with a 5% aqueous sodium hydrogen carbonate solution, with water and dried over sodium sulfate and then evaporated to dryness. Purification by silica gel column chromatography [eluent: ethyl acetate / hexane 15/85] afforded pure 4 (63.0 g, 68%) as a syrup. 1 H-NMR (CDCl₃): δ 7.5-6.9 (m, 13H, MMTr), 4.89 (s, 1H, H-1), 4.72-4.62 (m, 3H, H-2, H-3 and OH-5), 3.82 (dd, 1H, H-5, $_{5-OH}$ = 5.5 Hz, $_{5-5}$ = 10.5 Hz), 3.79 (s, 6H, OCH₃), 3.54 (dd, 1H, H-5', $_{5-OH}$ = 4.9 Hz, $_{5-5}$ = 10.5 Hz), 3.31 (s, 3H, OCH₃), 3.24 (d, 1H, H-6, $_{5-6}$ = 9.2 Hz), 3.13 (d, 1H, H-6', $_{5-6}$ = 9.2 Hz), 1.24 (s, 3H CH₃), 1.15 (s, 3H CH₃); MS (matrix GT): FAB>0 m/z 303 (DMTr) $^{+}$.

EXAMPLE 8: Preparation of 5-O-Benzoyl-4-C-hydroxymethyl-1-O-methyl-2,3-O-isopropylidene-β-D-ribo-furanose - (5)

The title compound can be prepared according to a published procedure (Gunic, E.; Girardet, J.-L.; Pietrzkowski, Z.; Esler, C.; Wang, G. "Synthesis and cytotoxicity of 4'-C-and 5'-C-substituted Toyocamycins" <u>Bioorg. Med. Chem.</u> **2001**, *9*, 163-170).

To a solution of 4 (2.51 g, 4.68 mmol) in anhydrous pyridine (37 mL) was added under argon benzoyl chloride (1.09 mL, 9.36 mmòl) and the reaction mixture was stirred for 13 hours at to room temperature. Then the reaction was cooled to 0°C and stopped with ice-cold water (100 mL). The water layer was extracted with methylene chloride (3 □ 200 mL). The combined organic layers were washed with a saturated aqueous sodium hydrogen carbonate solution (2x 150 mL), with water (1x 150 mL) and then dried over sodium sulfate and evaporated under reduced pressure. The residue was dissolved in 80% acetic acid (70.2

mL) and the mixture was stirred at room temperature for 3hr and concentrated to dryness. Purification by silica gel column chromatography [eluent: chloroform] afforded pure 5 (1.40 g, 88%) as a syrup. 1 H-NMR (CDCl₃): δ 8.1-7.4 (m, 5H, C₆H₅CO), 5.08 (s, 1H, H-1), 4.77 (dd, 2H, H-2 and H-3, J = 6.1 Hz, J = 8.2 Hz), 4.51 (q, 2H, H-5 and H-5', J = 11.5 Hz, J_{5-5'} = 23.8 Hz), 3.91 (t, 2H, H-6 and H-6', J = 12.3 Hz), 4.38 (s, 1H, OCH₃), 2.2-1.8 (brs, 1H, OH-6), 1.57 (s, 3H CH₃), 1.38 (s, 3H CH₃); MS (matrix GT): FAB>0 m/z 677 (2M+H)⁺, 339 (M+H)⁺, 307 (M-OCH₃)⁺, 105 (C₆H₅CO)⁺ FAB<0 m/z 121 (C₆H₅CO₂)⁻.

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EXAMPLE 9: Preparation of 5-O-Benzoyl-4-C-methyl-1-O-methyl-2,3-Oisopropylidene-β-D-ribofuranose - (6)

The title compound can be prepared according to a published procedure (Gunic, E.; Girardet, J.-L.; Pietrzkowski, Z.; Esler, C.; Wang, G. "Synthesis and cytotoxicity of 4'-C-and 5'-C-substituted Toyocamycins" Bioorg. Med. Chem. **2001**, *9*, 163-170).

A solution of 5 (37.6 g, 0.111 mol), 4-dimethylaminopyridine (DMAP, 40.7 g, 0.333 mol) and phenoxythiocarbonyle chloride in anhydrous acetonitrile (1000 mL) was stirred at room temperature for 1 hour and concentrated to dryness. The residue was dissolved in methylene chloride (500 mL) and successively washed with 0.2 M hydrochloric acid (2x 500 mL) and water (500 mL) before being dried over sodium sulfate, evaporated under reduced pressure and coevaporated several times with anhydrous toluene. The crude material was dissolved in anhydrous toluene (880 mL) and tris(trimethylsilyl)silane (TMSS, 42.9 mL, 0.139 mol), and 1,1'-azobis(cyclohexanecarbonitrile) (ACCN, 6.8 g, 27.8 mmol) were added. The reaction mixture was stirred under reflux for 45 minutes, cooled to room temperature and concentrated under reduced pressure. The resulting residue was purified by silica gel column chromatography [eluent: stepwise gradient of diethyl ether (5-20%) in petroleum ether] to give pure 6 (26.4 g, 74%) as a pale yellow syrup. ¹H-NMR (DMSO-d₆): δ 8.0-7.5 (m, 5H, C₆H₅CO), 4.85 (s, 1H, H-1), 4.63 (dd, 2H, H-2 and H-3, J = 6.1 Hz, J = 11.6 Hz), 4.24 (d, 1H, H-5, $J_{5.5'} = 11.1$ Hz), 4.10 (d, 1H, H-5', $J_{5'.5} = 11.1$ Hz), 3.17 (s, 1H, OCH₃), 1.38 (s, 3H CH₃), 1.30 (s, 3H CH₃), 1.25 (s, 3H CH₃); MS (matrix GT): FAB>0 m/z 291 (M-OCH₃)⁺, 105 (C₆H₅CO)⁺ FAB<0 m/z 121 (C₆H₅CO₂)⁻.

EXAMPLE 10: Preparation of 5-O-Benzoyl-4-C-methyl-1,2,3-O-acetyl- α , β -D-ribofuranose - (7)

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Compound 6 (22.5 g, 70 mmol) was suspended in a 80% aqueous acetic acid solution (250 mL). The solution was heated at 100°C for 3 hours. The volume was then reduced by half and coevaporated with absolute ethanol and pyridine. The oily residue was dissolved in pyridine (280 mL) and then cooled at 0°C. Acetic anhydride (80 mL) and 4-dimethylamino-pyridine (500 mg) were added. The reaction mixture was stirred at room temperature for 3 hours and then concentrated under reduced pressure. The residue was dissolved with ethyl acetate (1 L) and successively washed with a saturated aqueous sodium hydrogen carbonate solution, a 1 M hydrochloric acid and water. The organic layer was dried over sodium sulfate and evaporated under reduced pressure. The resulting residue was purified by silica gel column chromatography [eluent: stepwise gradient of diethyl ether (30-40%) in petroleum ether] to give pure 7 (16.2 g, 60%) as a pale yellow syrup. A small fraction of the material was re-purified on silica gel chromatography [same eluent: system] in order separate the α and the β anomers.

α anomer: 1 H-NMR (DMSO-d₆): δ 8.1-7.5 (m, 5H, C₆H₅CO), 6.34 (pt, 1H, H-1, J = 2.4 Hz, J = 2,1 Hz), 5.49 (m, 2H, H-2 and H-3), 4.33 (q, 2H, H-5 and H-5', J = 11.6 Hz, J = 18.7 Hz), 2.15 (s, 3H, CH₃CO₂), 2.11 (s, 3H, CH₃CO₂), 2.07 (s, 3H, CH₃CO₂), 1.37 (s, 3H, CH₃); MS (matrix GT): FAB>0 m/z 335 (M-CH₃CO₂)⁺, 275 (M-CH₃CO₂⁻+H)⁺,105 (C₆H₅CO)⁺, 43 (CH₃CO)⁺ FAB<0 m/z 121 (C₆H₅CO₂)⁻, 59 (CH₃CO₂)⁻.

β anomer: 1 H-NMR (DMSO-d₆): δ 8.1-7.5 (m, 5H, C₆H₅CO), 5.99 (s, 1H, H-1), 5.46 (d, 1H, H-2, $J_{2-3} = 5.3$ HZ), 5.30 (d, 1H, H-2, $J_{2-3} = 5.3$ Hz), 4.39 (d, 1H, H-5, $J_{5-5'} = 11.7$ Hz), 4.19 (d, 1H, H-5', $J_{5'-5} = 11.7$ Hz), 2.10 (s, 3H, CH₃CO₂), 2.06 (s, 3H, CH₃CO₂), 2.02 (s, 3H, CH₃CO₂), 1.30 (s, 3H, CH₃); MS (matrix GT): FAB>0 m/z 335 (M-CH₃CO₂)⁺, 275 (M-CH₃CO₂⁻+H)⁺,105 (C₆H₅CO)⁺, 43 (CH₃CO)⁺ FAB<0 m/z 121 (C₆H₅CO₂)⁻, 59 (CH₃CO₂)⁻.

EXAMPLE 11: Preparation of O-6-Diphenyl Carbamoyl- N^2 -isobutyryl-9-(2,3-di-O-acetyl-5-O-benzoyl-4-C-methyl- β -D-ribofuranosyl)-8-methyl Guanine - (18)

To a suspension of O-6-diphenylcarbamoyl-8-methyl-N²-isobutyrylguanine in anhydrous toluene (20 mL) was added N,O-bis(trimethylsilyl)acetamide (1.92 mL, 7.9 mmol). The reaction mixture was allowed to warm under reflux for 1 hour. Compound 7 (1.55 g, 3.93 mmol) was dissolved in toluene (10 mL) and trimethylsilyltrifluoro-

methanesulfonate (TMSTf) (915 mL, 4.72 mmol) was added. The mixture was heated under reflux for 30 minutes. The solution was then cooled to room temperature and neutralized with a 5% aqueous sodium hydrogen carbonate solution. The reaction mixture was diluted with ethyl acetate (200 mL). The organic phase was washed with a 5% aqueous sodium hydrogen carbonate solution (150 mL) and with water (2x 150 mL). The organic layer was dried over Na₂SO₄ and evaporated to dryness. The residue was purified by silica gel column chromatography [eluent: stepwise gradient of diethyl ether (70-90%) in petroleum ether] to afford 18.

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EXAMPLE 12: Preparation of 9-(4-C-methyl-β-D-ribofuranosyl)-8-Methylguanine - (19)

The title compound can be prepared according to a published procedure from 18 (Waga, T.; Nishizaki, T.; Miyakawa, I.; Orhui, H.; Meguro, H. "Synthesis of 4'-C-methylnucleosides" <u>Biosci. Biotechnol. Biochem.</u> 1993, 57, 1433-1438).

A solution of 18 in methanolic ammonia (previously saturated at -10°C) (20 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (60 mL) and water (60 mL). The aqueous layer was washed with methylene chloride (2x 60 mL), concentrated under reduced pressure. The residue was purified by an RP18 column chromatography [eluent water/acetonitrile 95/5] to afford 19.

EXAMPLE 13: 9-(2,3-DI-O-ACETYL-5-O-BENZOYL-4-C-METHYL-β-D-RIBOFURANOSYL)-8-METHYLADENINE - (20)

A solution of 7 (1.10 g, 2.79 mmol) in anhydrous acetonitrile (50 ml) was treated with 8-methyladenine and stannic chloride (SnCl₄, 660 μL, 5.58 mmol) and stirred at room temperature overnight. The solution was concentrated under reduced pressure, diluted with chloroform (100 mL) and treated with a cold saturated aqueous solution of NaHCO₃ (100 ml). The mixture was filtered on celite, and the precipitate was washed with hot chloroform. The filtrates were combined, washed with water (100 ml) and brine (100 ml), dried (Na₂SO₄), and evaporated under reduced pressure. The residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (3-5%) in dichloromethane] to afford 20.

EXAMPLE 14: PREPARATION OF 9-(4-C-METHYL-β-D-RIBOFURANOSYL)-8-METHYLADENINE - (21)

The title compound can be prepared according to a published procedure from **20** (Waga, T.; Nishizaki, T.; Miyakawa, I.; Orhui, H.; Meguro, H. "Synthesis of 4'-C-methylnucleosides" <u>Biosci. Biotechnol. Biochem.</u> **1993**, *57*, 1433-1438).

A solution of **20** in methanolic ammonia (previously saturated at -10°C) (50 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (100 ml) and water (100 ml). The aqueous layer was washed with methylene chloride (2x 100 mL), and concentrated under reduced pressure. The residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (10-30%) in ethyl acetate] to afford **21**.

In a similar manner, but using the appropriate sugar and purine bases, the following nucleosides of Formula XXXXII are prepared.

wherein R¹, R², R³, X¹, X², and Y are defined in Table 19.

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EXAMPLE 15: Preparation of 1-(5-O-Benzoyl-4-C-methyl-2,3-O-acetyl- β -D-ribofuranosyl)-6-methyluracil - (8)

A suspension of 6-methyluracil was treated with hexamethyldisilazane (HMDS, 21 mL) and a catalytic amount of ammonium sulfate during 17 hours under reflux. After cooling to room temperature, the mixture was evaporated under reduced pressure, and the residue, obtained as a colorless oil, was diluted with anhydrous 1,2-dichloroethane (7.5 mL). To the resulting solution was added 7 (0.99 g, 2.51 mmol) in anhydrous 1,2-dichloroethane (14 mL), followed by addition of trimethylsilyl trifluoromethanesulfonate (TMSTf, 0.97 mL, 5.02 mmol). The solution was stirred for 2.5 hours at room temperature

under argon atmosphere, then diluted with chloroform (150 mL), washed with the same volume of a saturated aqueous sodium hydrogen carbonate solution and finally with water (2x 100 mL). The organic phase was dried over sodium sulfate, then evaporated under reduced pressure. The resulting crude material was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (0-2%) in chloroform] to afford pure 8.

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EXAMPLE 16: PREPARATION OF 1-(4-C-METHYL- β -D-RIBOFURANOSYL)-6-METHYLURACIL - (9)

The title compound can be prepared according to a published procedure from 8 (Waga, T.; Nishizaki, T.; Miyakawa, I.; Orhui, H.; Meguro, H. "Synthesis of 4'-C-methylnucleosides" <u>Biosci. Biotechnol. Biochem.</u> 1993, 57, 1433-1438).

A solution of 8 in methanolic ammonia (previously saturated at -10°C) (27 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (40 mL) and water (40 mL). The aqueous layer was washed with methylene chloride (2x 40 mL), concentrated under reduced pressure and coevaporated several times with absolute ethanol. Recrystallization from a mixture absolute ethanol/methanol gave 9.

EXAMPLE 17: PREPARATION OF 1-(5-O-BENZOYL-4-C-METHYL-2,3-O-ACETYL- β -D-RIBOFURANOSYL)-4-THIO-6-METHYL-URACIL — (10)

Lawesson's reagent (926 mg, 2.29 mmol) was added under argon to a solution of 8 in anhydrous 1,2-dichloroethane (65 mL) and the reaction mixture was stirred overnight under reflux. The solvent was evaporated under reduced pressure and the residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (1-2%) in chloroform] to give pure 10.

EXAMPLE 18: Preparation of 1-(4-C-methyl-β-D-ribofuranosyl)-4-thio-6methyluracil - (11)

A solution of **10** in methanolic ammonia (previously saturated at -10°C) (27 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (40 ml) and water (40 mL). The aqueous layer was washed with methylene chloride (2x 40 mL), concentrated

under reduced pressure. The crude material was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (5-7%) in methylene chloride] to give 11, which was lyophilized.

EXAMPLE 19: Preparation of 1-(4-C-methyl-β-D-ribofuranosyl)-6methylcytosine, hydrochloric form - (12)

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Compound 11 was treated with methanolic ammonia (previously saturated at -10°C), (12 mL) at 100°C in a stainless-steel bomb for 3 hours, then cooled to room temperature. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (40 mL) and water (40 mL). The aqueous layer was washed with methylene chloride (2x 40 mL), concentrated under reduced pressure. The crude material was purified by silica gel column chromatography [eluent: methylene chloride/ methanol/ammonium hydroxide 65:30:5]. The collected fractions were evaporated under reduced pressure and in absolute ethanol (6.3 mL). To the solution was added a 2N hydrochloric acid solution (1.5 mL) and the mixture was stirred before being concentrated under reduced pressure. The procedure was repeated twice and 12 was precipitated from absolute ethanol.

EXAMPLE 20: PREPARATION OF 1-(5-O-BENZOYL-4-C-METHYL-2,3-O-ACETYL- β -D-RIBOFURANOSYL)-6-METHYLTHYMINE - (13)

A suspension of 6-methylthymine was treated with hexamethyldisilazane (HMDS, 17 mL) and a catalytic amount of ammonium sulfate overnight under reflux. After cooling to room temperature, the mixture was evaporated under reduced pressure, and the residue, obtained as a colorless oil, was diluted with anhydrous 1,2-dichloroethane (6 mL). To the resulting solution was added 7 (1.0 g, 2.53 mmol) in anhydrous 1,2-dichloroethane (14 mL), followed by addition of trimethylsilyl trifluoromethanesulfonate (TMSTf, 0.98 mL, 5.06 mmol). The solution was stirred for 5 hours at room temperature under argon atmosphere, then diluted with chloroform (150 mL), washed with the same volume of a saturated aqueous sodium hydrogen carbonate solution and finally with water (2x 100 mL). The organic phase was dried over sodium sulfate, then evaporated under reduced pressure. The resulting crude material was purified by silica gel column chromatography [eluent: 2% of methanol in chloroform] to afford pure 13.

EXAMPLE 21: Preparation of 1-(4-C-methyl- β -D-ribofuranosyl)-6methylthymine - (14)

The title compound can be prepared according to a published procedure from 13 (Waga, T.; Nishizaki, T.; Miyakawa, I.; Orhui, H.; Meguro, H. "Synthesis of 4'-C-methylnucleosides" <u>Biosci. Biotechnol. Biochem.</u> 1993, 57, 1433-1438).

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A solution of 13 in methanolic ammonia (previously saturated at -10°C) (60 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (60 mL) and water (60 mL). The aqueous layer was washed with methylene chloride (2x 60 mL), concentrated under reduced pressure and coevaporated several times with absolute ethanol. Recrystallization from methanol gave 14.

EXAMPLE 22: PREPARATION OF 1-(5,2,3-TRI-O-ACETYL-4-C-METHYL- β -D-RIBOFURANOSYL)-6-METHYLTHYMINE - (15)

A solution of **14** in anhydrous pyridine (7.4 mL) was treated with acetic anhydride (1.2 mL) and stirred at room temperature for 3 hours. The solvent was evaporated under reduced pressure, and the residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (0-5%) in methylene chloride] to afford **15**.

EXAMPLE 23: PREPARATION OF 1-(5,2,3-TRI-O-ACETYL-4-C-METHYL- β -D-RIBOFURANOSYL)-4-THIO-6-METHYLTHYMINE - (16)

Lawesson's reagent (119 mg, 0.29 mmol) was added under argon to a solution of 15 in anhydrous 1,2-dichloroethane (11 mL) and the reaction mixture was stirred overnight under reflux. The solvent was evaporated under reduced pressure and the residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (1-2%) in chloroform] to give 16.

EXAMPLE 24: Preparation of 1-(4-C-methyl-β-D-ribofuranosyl)-5-methyl-6methylcytosine - (17), hydrochloride form

Compound 16 was treated with methanolic ammonia (previously saturated at -10°C), (10 mL) at 100°C in a stainless-steel bomb for 3 hours, then cooled to room temperature. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (30 mL) and water (30 mL). The aqueous layer was

washed with methylene chloride (2x 30 mL), concentrated under reduced pressure. The crude material was purified by silica gel column chromatography [eluent: 20% methanol in methylene chloride] to afford 17. This compound was dissolved in EtOH 100 (1.5 mL), treated with a 2N hydrochloric acid solution (0.3 mL), and the mixture was stirred before being concentrated under reduced pressure. The procedure was repeated twice and 17 was precipitated from absolute ethanol.

Alternatively, the following nucleosides of Formula XXXXIII are prepared, using the appropriate sugar and pyrimidine bases.

$$X^2$$
 X^1
 X^1
 X^2
 X^1
 X^2
 X^1
 X^2
 X^1
 X^2
 X^1
 X^2
 X^2
 X^1
 X^2
 X^2

(XXXXIII)

wherein R¹, R², R³, X¹, X², and Y are defined in Table 20.

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Alternatively, the following nucleosides of Formula XXXXIV are prepared, using the appropriate sugar and pyrimidine or purine bases.

$$R^{1}O$$
 R^{6}
 R^{6}
 R^{6}
 R^{7}
 R^{6}
 R^{7}
 R^{6}
 R^{7}
 $R^{$

wherein R^1 , R^2 , R^3 , R^6 , X, and Base are defined in Table 21.

Alternatively, the following nucleosides of Formula XXXXV are prepared, using the appropriate sugar and pyrimidine or purine bases.

$$R^{1}O$$
 R^{6}
 OR^{2}
 $(XXXXV)$

wherein R¹, R², R⁶, X, and Base are defined in Table 22.

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Alternatively, the following nucleosides of Formula XXXXVI are prepared, using the appropriate sugar and pyrimidine or purine bases.

$$R^{1}O$$
 R^{6}
 X
 OR^{2}
 $(XXXXVI)$

(XXXXV

wherein R¹, R², R⁶, X, and Base are defined in Table 23

Alternatively, the following nucleosides of Formula XXXXVII are prepared, using the appropriate sugar and pyrimidine or purine bases.

$$R^{1O}$$
 R^{1O}
 R

wherein R^1 , R^6 , R^7 , R^8 , R^9 , R^{10} , X, and Base are defined in Table 24.

Tables 1-24 set out examples of species within the present invention. When the amino acid appears in the table, it is considered to be a specific and independent disclosure of each of the esters of α , $\beta \gamma$ or δ glycine, alanine, valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine in the D and L-configurations.

When the term acyl is used in the tables, it is meant to be a specific and independent disclosure of any of the acyl groups as defined herein, including, but not limited to, acetyl, trifluoroacetyl, methylacetyl, cyclopropylacetyl, propionyl, butyryl, hexanoyl, heptanoyl, octanoyl, neo-heptanoyl, phenylacetyl, diphenylacetyl, a-trifluoromethyl-phenylacetyl, bromoacetyl, 4-chloro-benzeneacetyl, 2-chloro-2,2-diphenylacetyl, 2-chloro-2-phenylacetyl, trimethylacetyl, chlorodifluoroacetyl, perfluoroacetyl, fluoroacetyl, bromodifluoroacetyl, 2-thiopheneacetyl, tert-butylacetyl, trichloroacetyl, monochloro-acetyl, dichloroacetyl, methoxybenzoyl, 2-bromo-propionyl, decanoyl, n-pentadecanoyl, stearyl, 3-cyclopentyl-propionyl, 1-benzene-carboxyl, pivaloyl acetyl, 1-adamantane-carboxyl, cyclohexane-carboxyl, 2,6-pyridinedicarboxyl, cyclopropane-carboxyl, cyclobutane-carboxyl, 4-methylbenzoyl, crotonyl, 1-methyl-1H-indazole-3-carbonyl, 2-propenyl, isovaleryl, 4-phenylbenzoyl.

VIII. Biological Assays

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A number of assays are available to determine the potency of test compounds against viruses. Several of these biological assays are described in the examples below.

EXAMPLE 25: Anti-Flavivirus or Pestivirus Activity

Compounds can exhibit anti-flavivirus or pestivirus activity by inhibiting flavivirus or pestivirus polymerase, by inhibiting other enzymes needed in the replication cycle, or by other pathways.

Phosphorylation Assay of Nucleoside to Active Triphosphate

To determine the cellular metabolism of the compounds, HepG2 cells are obtained from the American Type Culture Collection (Rockville, MD), and are grown in 225 cm² tissue culture flasks in minimal essential medium supplemented with non-essential amino acids, 1% penicillin-streptomycin. The medium is renewed every three days, and the cells are subcultured once a week. After detachment of the adherent monolayer with a 10 minute exposure to 30 mL of trypsin-EDTA and three consecutive washes with medium, confluent HepG2 cells are seeded at a density of 2.5 x 10⁶ cells per well in a 6-well plate and exposed to 10 µM of [³H] labeled active compound (500 dpm/pmol) for the specified time periods. The cells are maintained at 37°C under a 5% CO₂ atmosphere. At the selected time points, the cells are washed three times with ice-cold phosphate-buffered saline (PBS).

Intracellular active compound and its respective metabolites are extracted by incubating the cell pellet overnight at -20° C with 60% methanol followed by extraction with an additional $20~\mu$ L of cold methanol for one hour in an ice bath. The extracts are then combined, dried under gentle filtered air flow and stored at -20° C until HPLC analysis.

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Bioavailability Assay in Cynomolgus Monkeys

Within 1 week prior to the study initiation, the cynomolgus monkey is surgically implanted with a chronic venous catheter and subcutaneous venous access port (VAP) to facilitate blood collection and underwent a physical examination including hematology and serum chemistry evaluations and the body weight was recorded. Each monkey (six total) receives approximately 250 µCi of ³H activity with each dose of active compound at a dose level of 10 mg/kg at a dose concentration of 5 mg/mL, either via an intravenous bolus (3 monkeys, IV), or via oral gavage (3 monkeys, PO). Each dosing syringe is weighed before dosing to gravimetrically determine the quantity of formulation administered. Urine samples are collected via pan catch at the designated intervals (approximately 18-0 hours pre-dose, 0-4, 4-8 and 8-12 hours post-dosage) and processed. Blood samples are collected as well (pre-dose, 0.25, 0.5, 1, 2, 3, 6, 8, 12 and 24 hours post-dosage) via the chronic venous catheter and VAP or from a peripheral vessel if the chronic venous catheter procedure should not be possible. The blood and urine samples are analyzed for the maximum concentration (C_{max}), time when the maximum concentration is achieved (T_{max}), area under the curve (AUC), half life of the dosage concentration (T₂), clearance (CL), steady state volume and distribution (V_{ss}) and bioavailability (F).

Bone Marrow Toxicity Assay

Human bone marrow cells are collected from normal healthy volunteers and the mononuclear population are separated by Ficoll-Hypaque gradient centrifugation as described previously by Sommadossi J-P, Carlisle R. "Toxicity of 3'-azido-3'-deoxythymidine and 9-(1,3-dihydroxy-2-propoxymethyl)guanine for normal human hematopoietic progenitor cells *in vitro*" *Antimicrobial Agents and Chemotherapy* 1987; 31:452-454; and Sommadossi J-P, Schinazi RF, Chu CK, Xie M-Y. "Comparison of cytotoxicity of the (-)- and (+)-enantiomer of 2',3'-dideoxy-3'-thiacytidine in normal human bone marrow progenitor cells" *Biochemical Pharmacology* 1992; 44:1921-1925. The culture assays for CFU-GM and BFU-E are performed using a bilayer soft agar or methylcellulose method. Drugs are diluted in tissue culture medium and filtered. After 14

to 18 days at 37°C in a humidified atmosphere of 5% CO₂ in air, colonies of greater than 50 cells are counted using an inverted microscope. The results are presented as the percent inhibition of colony formation in the presence of drug compared to solvent control cultures. *Mitochondria Toxicity Assay*

HepG2 cells are cultured in 12-well plates as described above and exposed to various concentrations of drugs as taught by Pan-Zhou X-R, Cui L, Zhou X-J, Sommadossi J-P, Darley-Usmer VM. "Differential effects of antiretroviral nucleoside analogs on mitochondrial function in HepG2 cells" *Antimicrob. Agents Chemother*. 2000; 44:496-503. Lactic acid levels in the culture medium after 4 day drug exposure are measured using a Boehringer lactic acid assay kit. Lactic acid levels are normalized by cell number as measured by hemocytometer count.

Cytotoxicity Assay

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Cells are seeded at a rate of between 5 x 10^3 and 5 x 10^4 /well into 96-well plates in growth medium overnight at 37°C in a humidified CO₂ (5%) atmosphere. New growth medium containing serial dilutions of the drugs is then added. After incubation for 4 days, cultures are fixed in 50% TCA and stained with sulforhodamineB. The optical density was read at 550 nm. The cytotoxic concentration was expressed as the concentration required to reduce the cell number by 50% (CC₅₀).

Cell Protection Assay (CPA)

The assay is performed essentially as described by Baginski, S. G.; Pevear, D. C.; Seipel, M.; Sun, S. C. C.; Benetatos, C. A.; Chunduru, S. K.; Rice, C. M. and M. S. Collett "Mechanism of action of a pestivirus antiviral compound" *PNAS USA* **2000**, 97(14), 7981-7986. MDBK cells (ATCC) are seeded onto 96-well culture plates (4,000 cells per well) 24 hours before use. After infection with BVDV (strain NADL, ATCC) at a multiplicity of infection (MOI) of 0.02 plaque forming units (PFU) per cell, serial dilutions of test compounds are added to both infected and uninfected cells in a final concentration of 0.5% DMSO in growth medium. Each dilution is tested in quadruplicate. Cell densities and virus inocula are adjusted to ensure continuous cell growth throughout the experiment and to achieve more than 90% virus-induced cell destruction in the untreated controls after four days post-infection. After four days, plates are fixed with 50% TCA and stained with sulforhodamine B. The optical density of the wells is read in a microplate reader at 550 nm.

The 50% effective concentration (EC $_{50}$) values are defined as the compound concentration that achieved 50% reduction of cytopathic effect of the virus.

Plaque Reduction Assay

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For each compound the effective concentration is determined in duplicate 24-well plates by plaque reduction assays. Cell monolayers are infected with 100 PFU/well of virus. Then, serial dilutions of test compounds in MEM supplemented with 2% inactivated serum and 0.75% of methyl cellulose are added to the monolayers. Cultures are further incubated at 37°C for 3 days, then fixed with 50% ethanol and 0.8% Crystal Violet, washed and air-dried. Then plaques are counted to determine the concentration to obtain 90% virus suppression.

Yield Reduction Assay

For each compound the concentration to obtain a 6-log reduction in viral load is determined in duplicate 24-well plates by yield reduction assays. The assay is performed as described by Baginski, S. G.; Pevear, D. C.; Seipel, M.; Sun, S. C. C.; Benetatos, C. A.; Chunduru, S. K.; Rice, C. M. and M. S. Collett "Mechanism of action of a pestivirus antiviral compound" PNAS USA 2000, 97(14), 7981-7986, with minor modifications. Briefly, MDBK cells are seeded onto 24-well plates (2 x 105 cells per well) 24 hours before infection with BVDV (NADL strain) at a multiplicity of infection (MOI) of 0.1 PFU per cell. Serial dilutions of test compounds are added to cells in a final concentration of 0.5% DMSO in growth medium. Each dilution is tested in triplicate. After three days, cell cultures (cell monolayers and supernatants) are lysed by three freeze-thaw cycles, and virus yield is quantified by plaque assay. Briefly, MDBK cells are seeded onto 6-well plates (5 x 105 cells per well) 24 h before use. Cells are inoculated with 0.2 mL of test lysates for 1 hour, washed and overlaid with 0.5% agarose in growth medium. After 3 days, cell monolayers are fixed with 3.5% formaldehyde and stained with 1% crystal violet (w/v in 50% ethanol) to visualize plaques. The plaques are counted to determine the concentration to obtain a 6-log reduction in viral load.

EXAMPLE 26: IN VITRO ANTI-VIRAL ACTIVITY

In vitro anti-viral activity was tested in the following cell lines: MT-4 for HIV; Vero 76, African green monkey kidney cells for SARS; BHK for Bovine Viral Diarrhea Virus; Sb-1 for poliovirus Sabin type-1; CVB-2, CVB-3, CVB-4, and CVA-9 for Coxsackieviruses

B-2, B-3, B-4 and A-9; and REO-1 for double-stranded RNA viruses. Note: BVDV = bovine viral diarrhea virus; YFV = yellow fever virus; DENV = dengue virus; WNV = West Nile virus; CVB-2 = Coxsackie B-2 virus; Sb-1 = Sabin type 1 poliomyelitis virus; and REO = double-stranded RNA Reovirus.

<u>CC₅₀</u> and <u>EC₅₀</u> Test Results for β-D-2'-C-methyl-7-methyl-6-phenyl-3,3a,5,8a-tetrahydro-1,3,4,5,7a-penta-aza-s-indacen-8-one (Compound F)

	CC50	CC ₅₀	CC50	ÉC50	EC ₅₀	EC ₅₀	EC ₅₀	EC50	EC50
Compound	MT-4	Vero	BHK	Sb-1	CVB-	CVB-	CVB-	CVA-	REO-
		76			2	3	4	9	1
F	>100	>100	>100	43	37	49	39	60	2

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CC₅₀ Test Results for β-D-2'-C-methyl-7-methyl-6-phenyl-3,3a,5,8a-tetrahydro-1,3,4,5,7a-penta-aza-s-indacen-8-one (Compound F)

	CC50							
Compound	,	BVDV	YFV	DENV	WNV	CVB-	Sb-1	REO
				2		2		
F	>100	10	2.5	1.3	1	. 37	43	2

This invention has been described with reference to its preferred embodiments. Variations and modifications of the invention, will be obvious to those skilled in the art from the foregoing detailed description of the invention.

Table 1

\mathbb{R}^2	\mathbb{R}^3	X	X^2	Y
acyl	Н	CH ₃	Br	Н
acyl	Н	CH ₃	Br	NH ₂
acyl	H	CH ₃	Br	NH-cyclopropyl
acyl	Н	CH ₃	Br	NH-methyl
acyl	Н	CH ₃	Br	NH-ethyl
acyl	Н	CH ₃	Br	NH-acetyl
acyl	H	CH ₃	Br	OH
acyl	H	CH ₃	Br	OMe
acyl	H	CH ₃	Br	OEt
acyl	H	CH ₃	Br	O-cyclopropyl
acyl	H	CH ₃	Br	O-acetyl
acyl	H	CH ₃	Br	SH
acyl	H	CH ₃	Br	
acyl	H		Br	SMe
	H	CH ₃		SEt
acyl	H	CH ₃	Br	S-cyclopropyl
acyl		CH ₃	Br	F
acyl	H	CH ₃	Br	Cl
acyl	H	CH ₃	Br	Br
acyl	H	CH ₃	Br	I
acyl	acyl	CH ₃	Br	H
acyl	acyl	CH ₃	Br	NH ₂
acyl	acyl	CH ₃	Br	NH-cyclopropyl
acyl	acyl	CH ₃	Br	NH-methyl
acyl	acyl	CH ₃	Br	NH-ethyl
acyl	acyl	CH ₃	Br	NH-acetyl
acyl	acyl	CH ₃	Br	OH
acyl	acyl	CH ₃	Br	OMe
acyl	acyl	CH ₃	Br	OEt
acyl	acyl	_ CH₃	Br	O-cyclopropyl
acyl	acyl	CH ₃	Br	O-acetyl
acyl	acyl	CH ₃	Br	SH
acyl	acyl	CH ₃	Br	SMe
acyl	acyl	CH ₃	Br	SEt
acyl	acyl	CH ₃	Br	S-cyclopropyl
acyl	acyl	CH ₃	Br	F
acyl	acyl	CH ₃	Br	Cl
acyl	acyl	CH ₃	Br	Br
acyl	acyl	CH ₃	Br	I
acyl	amino acid	CH ₃	Br	H
acyl	amino acid	CH ₃	Br	NH ₂
acyl	amino acid	CH ₃	Br	NH-cyclopropyl
acyl	amino acid	CH ₃	Br	NH-methyl
acyl	amino acid	CH ₃	Br	
			+	NH-ethyl
acyl	amino acid	CH ₃	Br	NH-acetyl
acyl	amino acid	CH ₃	Br	OH

R ²	R ³	\mathbf{X}^{1}	X ²	Y
acyl	amino acid	CH ₃	Br	OMe
acyl	amino acid	CH ₃	Br	OEt
acyl	amino acid	CH ₃	Br	O-cyclopropyl
acyl	amino acid	CH ₃	Br	O-acetyl
acyl	amino acid	CH ₃	Br	SH
acyl	amino acid	CH ₃	Br	SMe
acyl	amino acid	CH ₃	Br	SEt
acyl	amino acid	CH ₃	Br	S-cyclopropyl
acyl	amino acid	CH ₃	Br	F
acyl	amino acid	CH ₃	Br	Cl
acyl	amino acid	CH ₃	Br	Br
acyl	amino acid	CH ₃	Br	I
H	acyl	CH ₃	Br	Н
H	acyl	CH ₃	Br	NH ₂
H	acyl	CH ₃	Br	NH-cyclopropyl
H	acyl	CH ₃	Br	NH-methyl
Н	acyl	CH ₃	Br	NH-ethyl
H	acyl	CH ₃	Br	NH-acetyl
H	acyl	CH ₃	Br	OH
Н	acyl	CH ₃	Br	OMe
Н	acyl	CH ₃	Br	OEt
Н	acyl	CH ₃	Br	O-cyclopropyl
Н	acyl	CH ₃	Br	O-acetyl
H	acyl	CH ₃	Br	SH
Н	acyl	CH ₃	Br	SMe
H	acyl	CH ₃	Br	SEt
H	acyl	CH ₃	Br	S-cyclopropyl
H	acyl	CH ₃	Br	F
H	acyl	CH ₃	Br	Cl
H	acyl	CH ₃	Br	Br
H	acyl	CH ₃	Br	I
H	amino acid	CH ₃	Br	Н
H	amino acid	CH ₃	Br	NH ₂
H	amino acid	CH ₃	Br	NH-cyclopropyl
H	amino acid	CH ₃	Br	NH-methyl
H	amino acid	CH ₃	Br	NH-ethyl
H	amino acid	CH ₃	Br	NH-acetyl
H	amino acid	CH ₃	Br	OH
H	amino acid	CH ₃	Br	OMe
H	amino acid	CH ₃	Br	OEt
H	amino acid	CH ₃	Br	O-cyclopropyl
H	amino acid	CH ₃	Br	O-acetyl
H	amino acid	CH ₃	Br	SH
H	amino acid	CH ₃	Br	SMe
H	amino acid	CH ₃	Br	SEt
H	amino acid	CH ₃	Br	S-cyclopropyl
H	amino acid	CH ₃	Br	F

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	\mathbf{X}^2	Y
H	amino acid	CH ₃	Br	Cl
H	amino acid	CH ₃	Br	Br
H	amino acid	CH ₃	Br	I
amino acid	amino acid	CH ₃	Br	Н
amino acid	amino acid	CH ₃	Br	NH ₂
amino acid	amino acid	CH ₃	Br	NH-cyclopropyl
amino acid	amino acid	CH ₃	Br	NH-methyl
amino acid	amino acid	CH ₃	Br	NH-ethyl
amino acid	amino acid	CH ₃	Br	NH-acetyl
amino acid	amino acid	CH ₃	Br	OH
amino acid	amino acid	CH ₃	Br	OMe
amino acid	amino acid	CH ₃	Br	OEt
amino acid	amino acid	CH ₃	Br	O-cyclopropyl
amino acid	amino acid	CH ₃	Br	O-acetyl
amino acid	amino acid	CH ₃	Br	SH
amino acid	amino acid	CH ₃	Br	SMe
amino acid	amino acid	CH ₃	Br	SEt
amino acid	amino acid	CH ₃	Br	S-cyclopropyl
amino acid	amino acid	CH ₃	Br	F
amino acid	amino acid	CH ₃	Br	Cl
amino acid	amino acid	CH ₃	Br	Br
amino acid	amino acid	CH ₃	Br	I
amino acid	H	CH ₃	Br	H
amino acid	H	CH ₃	Br	NH ₂
amino acid	Н	CH ₃	Br	NH-cyclopropyl
amino acid	Н	CH ₃	Br	NH-methyl
amino acid	Н	CH ₃	Br	NH-ethyl
amino acid	H	CH ₃	Br	NH-acetyl
amino acid	Н	CH ₃	Br	OH
amino acid	Н	CH ₃	Br	OMe
amino acid	H	CH ₃	Br	OEt
amino acid	Н	CH ₃	Br	O-cyclopropyl
amino acid	Н	CH ₃	Br	O-acetyl
amino acid	H	CH ₃	Br	SH
amino acid	Н	CH ₃	Br	SMe
amino acid	H	CH ₃	Br	SEt
amino acid	Н	CH ₃	Br	S-cyclopropyl
amino acid	H	CH ₃	Br	F
amino acid	Н	CH ₃	Br	Cl
amino acid	H	CH ₃	Br	Br
amino acid	H	CH ₃	Br	I
amino acid	acyl	CH ₃	Br	H
amino acid	acyl	CH ₃	Br	NH ₂
amino acid	acyl	CH ₃	Br	NH-cyclopropyl
amino acid	acyl	CH ₃	Br	NH-methyl
amino acid	acyl	CH ₃		
amino acid			Br	NH-ethyl
ammo aciu	acyl	CH ₃	Br	NH-acetyl

acyl	CII	<u> </u>	
	CH_3	Br	OH
acyl	CH ₃	Br	OMe
acyl	CH ₃	Br	OEt
acyl	CH ₃	Br	O-cyclopropyl
acyl	CH ₃	Br	O-acetyl
acyl		Br	SH
			SMe
			SEt
		Br	S-cyclopropyl
		Br	F
			Cl
			Br
			I
H			Н
H			NH ₂
H		Br	NH-cyclopropyl
H			NH-methyl
H			NH-ethyl
H			NH-acetyl
H			OH
H			OMe
H		Br	OEt
H		Br	O-cyclopropyl
H		Br	O-acetyl
H		Br	SH
H		Br	SMe
H	CF ₃	Br	SEt
H	CF ₃	Br	S-cyclopropyl
Н	CF ₃	Br	F
Н	CF ₃	Br	Cl
.H	CF ₃	Br	Br
Н	CF ₃	Br	I
acyl	CF ₃	Br	Н
acyl	CF ₃	Br	NH ₂
acyl	CF ₃	Br	NH-cyclopropyl
acyl	CF ₃	Br	NH-methyl
acyl	CF ₃	Br	NH-ethyl
acyl		Br _	NH-acetyl
acyl	CF ₃	Br	OH
acyl	CF ₃	Br	OMe
acyl		Br	OEt
acyl	CF ₃	Br	O-cyclopropyl
acyl	CF ₃	Br	O-acetyl
			SH
			SMe
			SEt
			S-cyclopropyl
	acyl acyl acyl acyl acyl acyl acyl acyl	acyl CH3 AH CF3 H CF3 acyl CF3 acyl <td< td=""><td>acyl CH3 Br acyl CH3 Br Br Br Br H CF3 Br acyl</td></td<>	acyl CH3 Br Br Br Br H CF3 Br acyl

\mathbb{R}^2	\mathbb{R}^3	X	X ²	Y
acyl	acyl	CF ₃	Br	F
acyl	acyl	CF ₃	Br	Cl
acyl	acyl	CF ₃	Br	Br
acyl	acyl	CF ₃	Br	I
acyl	amino acid	CF ₃	Br	Н
acyl	amino acid	CF ₃	Br	NH ₂
acyl	amino acid	CF ₃	Br	NH-cyclopropyl
acyl	amino acid	CF ₃	Br	NH-methyl
acyl	amino acid	CF ₃	Br	NH-ethyl
acyl	amino acid	CF ₃	Br	NH-acetyl
acyl	amino acid	CF ₃	Br	OH
acyl	amino acid	CF ₃	Br	OMe
acyl	amino acid	CF ₃	Br	OEt
acyl	amino acid	CF ₃	Br	O-cyclopropyl
acyl	amino acid	CF ₃	Br	O-acetyl
acyl	amino acid	CF ₃	Br	SH
acyl	amino acid	CF ₃	Br	SMe
acyl	amino acid	CF ₃	Br	SEt
acyl	amino acid	CF ₃	Br	S-cyclopropyl
acyl	amino acid	CF ₃	Br	F
acyl	amino acid	CF ₃	Br	Cl
acyl	amino acid	CF ₃	Br	Br
acyl	amino acid	CF ₃	Br	Ĭ
H	acyl	CF ₃	Br	Н
Н	acyl	CF ₃	Br	NH ₂
H	acyl	CF ₃	Br	NH-cyclopropyl
Н	acyl	CF ₃	Br	NH-methyl
H	acyl	CF ₃	Br	NH-ethyl
H	acyl	CF ₃	Br	NH-acetyl
H	acyl	CF ₃	Br	OH
Н	acyl	CF ₃	Br	OMe
H	acyl	CF ₃	Br	OEt
Н	acyl	CF ₃	Br	O-cyclopropyl
H	acyl	CF ₃	Br	O-acetyl
Н	acyl	CF ₃	Br	SH
Н	acyl	CF ₃	Br	SMe
H	acyl	CF ₃	Br	SEt
Н	acyl	CF ₃	Br	S-cyclopropyl
H	acyl	CF ₃	Br	F
H	acyl	CF ₃	Br	Cl
H	acyl	CF ₃	Br	Br
H	acyl	CF ₃	Br	I
Н	amino acid	CF ₃	Br	H
Н	amino acid	CF ₃	Br	NH ₂
H	amino acid	CF ₃	Br	NH-cyclopropyl
H	amino acid	CF ₃	Br	NH-methyl

	omino ooid	\mathbf{X}^{1}		Y
H	amino acid	CF ₃	Br	NH-acetyl
·	amino acid	CF ₃	Br	OH
H	amino acid	CF ₃	Br	OMe
H	amino acid	CF ₃	Br	OEt
H	amino acid	CF ₃	Br	O-cyclopropyl
H	amino acid	CF ₃	Br	O-acetyl
H	amino acid	CF ₃	Br	SH
H	amino acid	CF ₃	Br	SMe
H	amino acid	CF ₃	Br	SEt
H	amino acid	CF ₃	Br	S-cyclopropyl
H	amino acid	CF ₃	Br	F
H	amino acid	CF ₃	Вг	Cl
H	amino acid	CF ₃	Br	Br
H	amino acid	CF ₃	Br	I
amino acid	amino acid	CF ₃	Br	Н
amino acid	amino acid	CF ₃	Br	NH ₂
amino acid	amino acid	CF ₃	Br	NH-cyclopropyl
amino acid	amino acid	CF ₃	Br	NH-methyl
amino acid	amino acid	CF ₃	Br	NH-ethyl
amino acid	amino acid	CF ₃	Br	NH-acetyl
amino acid	amino acid	CF ₃	Br	OH
amino acid	amino acid	CF ₃	Br	OMe
amino acid	amino acid	CF ₃	Br	OEt
amino acid	amino acid	CF ₃	Br	O-cyclopropyl
amino acid	amino acid	CF ₃	Br	O-acetyl
amino acid	amino acid	CF ₃	Br	SH
amino acid	amino acid	CF ₃	Br	SMe
amino acid	amino acid	CF ₃	Br	SEt
amino acid	amino acid	CF ₃	Br	S-cyclopropyl
amino acid	amino acid	CF ₃	Br	F
	amino acid	CF ₃	Br	Cl
amino acid	amino acid	CF ₃	Br	Br
amino acid	amino acid	CF ₃	Br	I
	H	CF ₃	Br	Н
	H	CF ₃	Br	NH ₂
amino acid	H	CF ₃	Br	NH-cyclopropyl
amino acid	H	CF ₃	Br	NH-methyl
	Н	CF ₃	Br	NH-ethyl
	H	CF ₃	Br	NH-acetyl
	H	CF ₃	Br	ОН
amino acid	Н	CF ₃	Br	OMe
amino acid	Н	CF ₃	Br	OEt
amino acid	Н	CF ₃	Br	O-cyclopropyl
amino acid	H	CF ₃	Br	O-acetyl
amino acid	H	CF ₃	Br	SH
amino acid	Н	CF ₃	Br	SMe
amino acid	Н	CF ₃	Br	SEt

R ²	R ³	\mathbf{X}^{1}	X ²	Y
amino acid	Н	CF ₃	Br	S-cyclopropyl
amino acid	H	CF ₃	Br	F
amino acid	Н	CF ₃	Br	Cl
amino acid	H.	CF ₃	Br	Br
amino acid	H	CF ₃	Br	I
amino acid	acyl	CF ₃	Br	H
amino acid	acyl	CF ₃	Br	NH ₂
amino acid	acyl	CF ₃	Br	NH-cyclopropyl
amino acid	acyl	CF ₃	Br	NH-methyl
amino acid	acyl	CF ₃	Br	NH-ethyl
amino acid	acyl	CF ₃	Br	NH-acetyl
amino acid	acyl	CF ₃	Br	OH
amino acid	acyl	CF ₃	Br	OMe
amino acid	acyl	CF ₃	Br	OEt
amino acid	acyl	CF ₃	Br	O-cyclopropyl
amino acid	acyl	CF ₃	Br	O-acetyl
amino acid	acyl	CF ₃	Br	SH
amino acid	acyl	CF ₃	Br	SMe
amino acid	acyl	CF ₃	Br	SEt
amino acid	acyl	CF ₃	Br	S-cyclopropyl
amino acid	acyl	CF ₃	Br	F
amino acid	acyl	CF ₃	Br	Cl
amino acid	acyl	CF ₃	Br	Br
amino acid	acyl	CF ₃	Br	I
acyl	H	Br	Br	H
acyl	H	Br	Br	NH ₂
acyl	H	Br	Br	NH-cyclopropyl
acyl	H	Br	Br	NH-methyl
acyl	H	Br	Br	NH-ethyl
acyl	H	Br	Br	NH-acetyl
acyl	H	Br	Br	OH
acyl	H	Br	Br	OMe
acyl	H	Br	Br	OEt
acyl	H	Br	Br	O-cyclopropyl
acyl	H	Br	Br	O-acetyl
acyl	H	Br	Br	SH
acyl	H	Br	Br	SMe
acyl	H	Br	Br	SEt
acyl	H	Br	Br	S-cyclopropyl
acyl	H	Br	Br	F S-cyclopropyi
acyl	H	Br	Br	Cl
acyl	H	Br	Br	Br
acyl	H	Br	Br	I
acyl	acyl	Br	Br	H
acyl	acyl	Br		
			Br	NH ₂
acyl	acyl	Br Dr	Br	NH-cyclopropyl
acyl	acyl	Br	Br	NH-methyl

R2R3X1X2YacylacylBrBrNH-ethyacylacylBrBrNH-aceacylacylBrBrOHacylacylBrBrOHacylacylBrBrO-cycloacylacylBrBrO-acetyacylacylBrBrSHacylacylBrBrSHacylacylBrBrSEtacylacylBrBrSEtacylacylBrBrFacylacylBrBrFacylacylBrBrBracylacylBrBrBracylacylBrBrBracylamino acidBrBrNH-ethyacylamino acidBrBrNH-methyacylamino acidBrBrNH-ethyacylamino acidBrBrOHacylamino acidBrBrOHacylamino acidBrBrOHacylamino acidBrBrOHacylamino acidBrBrOHacylamino acidBrBrOHacylamino acidBrBrOH	propyl l
acyl acyl Br Br OH acyl acyl Br Br OMe acyl acyl Br Br OMe acyl Br Br OMe acyl Br Br OEt acyl Br Br O-cyclo acyl Br Br O-cyclo acyl Br Br O-acety acyl Br Br SH acyl Br Br SEt acyl Br Br SEt acyl Br Br S-cyclo acyl Br Br Br S-cyclo acyl Br Br Br S-cyclo acyl Br Br Br Br S-cyclo acyl Br Br Br I acyl Br Br Br Br I acyl Br Br Br SH acyl Br Br Br Br SH acyl Br Br Br Br SH acyl Br Br Br Br Br Br Br Br SH acyl Br	propyl l
acyl acyl Br Br OMe acyl acyl Br Br OMe acyl acyl Br Br OEt acyl acyl Br Br O-cyclo acyl acyl Br Br O-acety acyl Br Br SH acyl Br Br SH acyl Br Br SH acyl Br Br SH acyl Br Br SEt acyl Br Br SEt acyl Br Br Br S-cyclo acyl Br Br Br S-cyclo acyl Br Br Br Br S-cyclo acyl Br Br Br II acyl Br Br Br Br II acyl Br Br Br Br Acyl Br Br Br II acyl Br II Acyl Br Br II Acyl Br Br II Acyl Br Br II Acyl Br II Acyl Br Br II Acyl Br II Acyl Br II Acyl Br II Acyl Br Br II Acyl Br II Acy	propyl l
acyl acyl Br Br OEt acyl acyl Br Br O-cyclo acyl acyl Br Br O-cyclo acyl acyl Br Br O-acety acyl Br Br Br O-acety acyl Br Br Br SH acyl Br Br SH acyl Br Br SEt acyl Br Br SEt acyl Br Br Br S-cyclo acyl Br Br Br S-cyclo acyl Br Br Br F acyl Br Br Br Cl acyl Br Br Br Br I acyl Br Br Br H acyl Br Br Br NH-cyc	1
acyl acyl Br Br O-cyclo acyl acyl Br Br O-cyclo acyl acyl Br Br O-acety acyl Br Br Br O-acety acyl Br Br Br SH acyl Br Br SMe acyl Br Br SMe acyl Br Br SEt acyl Br Br S-cyclo acyl Br Br Br S-cyclo acyl Br Br Br F acyl Br Br Br Cl acyl Br Br Br Br Cl acyl Br Br Br Br Br acyl Br Br Br Br Br acyl Br Br Br Br Br acyl Br Br Br Br I acyl Br Br Br I acyl Br Br Br H acyl Br Br Br NH-cyc	1
acyl acyl Br Br O-cyclor acyl acyl Br Br O-acety acyl acyl Br Br SH SH acyl Br Br SMe acyl Br Br SMe Br SEt acyl Acyl Br Br Br SEt acyl Br Br Br S-cyclor acyl Br Br Br S-cyclor acyl Br Br Br F Br Acyl Br Br Br Cl Br Br Br Br Acyl Br Br Br Br Br Br Br Acyl Br Br Br Br Br Br Acyl Br Br Br Br Br Br Acyl Br Br Br Br Br Br Br Acyl Br Br Br Br Br Br Acyl Br	1
acyl acyl Br Br SH acyl acyl Br Br SH acyl acyl Br Br SMe acyl Br Br SMe acyl Br Br SEt acyl Br Br SEt acyl Br Br S-cyclor acyl Br Br Br S-cyclor acyl Br Br Br Cl acyl Br Br Br Cl acyl Br Br Br Br Br Br acyl Br Br Br Br H acyl Br Br Br H acyl Br Br Br NH-cycl acyl Br Br B	1
acyl acyl Br Br SH acyl acyl Br Br SMe acyl Br Br SSEt acyl Br Br SEt acyl Br Br S-cyclo acyl Br Br Br S-cyclo acyl Br Br Br Cl acyl Br Br Br Cl acyl Br Br Br Br Br Br Br H acyl Br Br Br NH2 acyl Br Br Br NH-cyc acyl Br Br NH-cyc	
acylacylBrBrSMeacylacylBrBrSEtacylacylBrBrBrS-cycloacylacylBrBrBrFacylacylBrBrBrBracylacylBrBrBrBracylamino acidBrBrHacylamino acidBrBrNH-cycacylamino acidBrBrNH-metacylamino acidBrBrNH-metacylamino acidBrBrNH-ethacylamino acidBrBrNH-aceacylamino acidBrBrOHacylamino acidBrBrOHacylamino acidBrBrOH	propyl
acyl acyl Br Br SEt acyl acyl Br Br S-cyclo acyl acyl Br Br F acyl Br Br F acyl Br Br Cl acyl Br Br Br Cl acyl Br Br Br I acyl Br Br Br H acyl Br Br Br H acyl Br Br Br NH-cycl acyl Br Br NH-cycl Br Br Br NH-cycl Br Br Br NH-cycl Br Br Br NH-cycl Br Br Br NH-cycl Br Br Br Br NH-cycl Br Br Br Br NH-cyc	propyl
acyl acyl Br Br F acyl acyl Br Br F acyl acyl Br Br Br Cl acyl acyl Br Br Br Br acyl acyl Br Br Br Br acyl acyl Br Br Br I acyl acyl Br Br Br H acyl amino acid Br Br NH2 acyl amino acid Br Br NH-cyc acyl amino acid Br Br NH-metacyl amino acid Br Br NH-metacyl amino acid Br Br NH-ethyacyl amino acid Br Br NH-ethyacyl amino acid Br Br NH-acel acyl amino acid Br Br OH acyl amino acid Br Br OH	propyl
acylacylBrBrFacylacylBrBrBrBracylacylBrBrBrBracylamino acidBrBrHacylamino acidBrBrNH2acylamino acidBrBrNH-cycacylamino acidBrBrNH-metacylamino acidBrBrNH-ethacylamino acidBrBrNH-aceacylamino acidBrBrOHacylamino acidBrBrOHacylamino acidBrBrOH	
acylacylBrBrClacylacylBrBrBracylacylBrBrIacylamino acidBrBrHacylamino acidBrBrNH-2acylamino acidBrBrNH-metacylamino acidBrBrNH-metacylamino acidBrBrNH-ethacylamino acidBrBrNH-aceacylamino acidBrBrOHacylamino acidBrBrOHacylamino acidBrBrOH	
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acyl acyl Br Br I acyl amino acid Br Br H acyl amino acid Br Br NH2 acyl amino acid Br Br NH-cyc acyl amino acid Br Br NH-met acyl amino acid Br Br NH-met acyl amino acid Br Br NH-eth acyl amino acid Br Br NH-ace acyl amino acid Br Br OH acyl amino acid Br Br OH	
acylamino acidBrBrHacylamino acidBrBrNH2acylamino acidBrBrNH-cycacylamino acidBrBrNH-metacylamino acidBrBrNH-ethacylamino acidBrBrNH-aceacylamino acidBrBrOHacylamino acidBrBrOHacylamino acidBrBrOH	
acylamino acidBrBrNH2acylamino acidBrBrNH-cycacylamino acidBrBrNH-methacylamino acidBrBrNH-ethacylamino acidBrBrNH-aceacylamino acidBrBrOHacylamino acidBrBrOHacylamino acidBrBrOMe	
acylamino acidBrBrNH-cycacylamino acidBrBrNH-metacylamino acidBrBrNH-ethacylamino acidBrBrNH-aceacylamino acidBrBrOHacylamino acidBrBrOMe	
acylamino acidBrBrNH-metacylamino acidBrBrNH-ethacylamino acidBrBrNH-aceacylamino acidBrBrOHacylamino acidBrBrOMe	lopropyl
acylamino acidBrBrNH-ethacylamino acidBrBrNH-aceacylamino acidBrBrOHacylamino acidBrBrOMe	
acylamino acidBrBrNH-aceacylamino acidBrBrOHacylamino acidBrBrOMe	
acyl amino acid Br Br OH acyl amino acid Br Br OMe	
acyl amino acid Br Br OMe	<u>a, </u>
acyl amino acid Br Br O-cyclo	propyl
acyl amino acid Br Br O-acety	1
acyl amino acid Br Br SH	
acyl amino acid Br Br SMe	
acyl amino acid Br Br SEt	
acyl amino acid Br Br S-cyclo	propyl
acyl amino acid Br Br F	<u> </u>
acyl amino acid Br Br Cl	
acyl amino acid Br Br Br	
acyl amino acid Br Br I	
H acyl Br Br H	
H acyl Br Br NH ₂	
	lopropyl
H acyl Br Br NH-met	
H acyl Br Br NH-ethy	
H acyl Br Br NH-ace	
H acyl Br Br OH	<u>v -</u>
H acyl Br Br OMe	·
H acyl Br Br OEt	
H acyl Br Br O-cyclo	propyl
H acyl Br Br O-acety	~
H acyl Br Br SH	. '
H acyl Br Br SMe	1

R ²	R ³	X ¹	X ²	Y
H	acyl	Br	Br	SEt
H	acyl	Br	Br	S-cyclopropyl
H	acyl	Br	Br	F
H	acyl	Br	Br	Cl
H	acyl	Br	Br	Br
H	acyl	Br	Br	I
Н	amino acid	Br	Br	Н
Н	amino acid	Br	Br	NH ₂
H	amino acid	Br	Br	NH-cyclopropyl
H	amino acid	Br	Br	NH-methyl
Н	amino acid	Br	Br	NH-ethyl
Н	amino acid	Br	Br	NH-acetyl
Н	amino acid	Br	Br	OH
Н	amino acid	Br	Br	OMe
Н	amino acid	Br	Br	OEt
Н	amino acid	Br	Br	O-cyclopropyl
Н	amino acid	Br	Br	O-acetyl
Н	amino acid	Br	Br	SH
Н	amino acid	Br	Br	SMe
H	amino acid	Br	Br	SEt
Н	amino acid	Br	Br	S-cyclopropyl
Н	amino acid	Br	Br	F
Н	amino acid	Br	Br	Cl
H	amino acid	Br	Br	Br
H	amino acid	Br	Br	I
amino acid	amino acid	Br	Br	H
amino acid	amino acid	Br	Br	NH ₂
amino acid	amino acid	Br	Br	NH-cyclopropyl
amino acid	amino acid	Br	Br	NH-methyl
amino acid	amino acid	Br	Br	NH-ethyl
amino acid	amino acid	Br	Br	NH-acetyl
amino acid	amino acid	Br	Br	OH
amino acid	amino acid	Br	Br	OMe
amino acid	amino acid	Br	Br	OEt
amino acid	amino acid	Br	Br	O-cyclopropyl
amino acid	amino acid	Br	Br	O-acetyl
amino acid	amino acid	Br	Br	SH
amino acid	amino acid	Br	Br	SMe
amino acid	amino acid	Br	Br	SEt
amino acid	amino acid	Br	Br	S-cyclopropyl
amino acid	amino acid	Br	Br	F
amino acid	amino acid	Br	Br	Cl
amino acid	amino acid	Br	Br	Br
amino acid	amino acid	Br	Br	I
amino acid	Н	Br	Br	H
amino acid	H	Br	Br	NH ₂
amino acid	H	Br	Br	NH-cyclopropyl
	1			11.12 0) 010 prop)1

\mathbb{R}^2	R ³	X	X ²	Y
amino acid	Н	Br	Br	NH-methyl
amino acid	H	Br	Br	NH-ethyl
amino acid	H	Br	Br	NH-acetyl
amino acid	Н	Br	Br	OH
amino acid	H	Br	Br	OMe
amino acid	H	Br	Br	OEt
amino acid	H	Br	Br	O-cyclopropyl
amino acid	H	Br	Br	O-acetyl
amino acid	H	Br	Br	SH
amino acid	H	Br	Br	SMe
amino acid	H	Br	Br	SEt
amino acid	H	Br	Br	S-cyclopropyl
amino acid	H	Br	Br	F
amino acid	H	Br	Br	Cl
amino acid	H	Br	Br	Br
amino acid	H	Br	Br	I
amino acid	acyl	Br	Br	H
amino acid	acyl	Br	Br	NH ₂
amino acid	acyl	Br	Br	NH-cyclopropyl
amino acid	acyl	Br	Br	NH-methyl
amino acid	acyl	Br	Br	NH-ethyl
amino acid	acyl	Br	Br	NH-acetyl
amino acid	acyl	Br	Br	OH
amino acid	acyl	Br	Br	OMe
amino acid	acyl	Br	Br	OEt
amino acid	acyl	Br	Br	O-cyclopropyl
amino acid	acyl	Br	Br	O-acetyl
amino acid	acyl	Br	Br	SH
amino acid	acyl	Br	Br	SMe
amino acid	acyl	Br	Br	SEt
amino acid	acyl	Br	Br	S-cyclopropyl
amino acid		Br	Br	F S-cyclopropyr
amino acid	acyl	Br	Br	Cl
amino acid	acyl	Br	Br	Br
amino acid		Br	Br	I
acyl	acyl H	Cl		H
	H		Br	
acyl	H	Cl	Br	NH ₂
acyl			Br	NH-cyclopropyl
acyl	H	Cl	Br	NH-methyl
acyl	H	Cl	Br	NH-ethyl
acyl	H	Cl	Br	NH-acetyl
acyl	H	Cl	Br	OH
acyl	H	Cl	Br	OMe
acyl	H	Cl	Br	OEt
acyl	H	Cl	Br	O-cyclopropyl
acyl	H	Cl	Br	O-acetyl
acyl	H	Cl	Br	SH

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	H	Cl	Br	SMe
acyl	Н	Cl	Br	SEt
acyl	H	Cl	Br	S-cyclopropyl
acyl	Н	Cl	Br	F
acyl	H	Cl	Br	Cl
acyl	H	Cl	Br	Br
acyl	H	Cl	Br	I
acyl	acyl	Cl	Br	Н
acyl	acyl	Cl	Br	NH ₂
acyl	acyl	Cl	Br	NH-cyclopropyl
acyl	acyl	Cl	Br	NH-methyl
acyl	acyl	Cl	Br	NH-ethyl
acyl	acyl	Cl	Br	NH-acetyl
acyl	acyl	Cl	Br	OH
acyl	acyl	CI	Br	OMe
acyl	acyl	Cl	Br	OEt
acyl	acyl	Cl	Br	O-cyclopropyl
acyl	acyl	Cl	Br	O-acetyl
acyl	acyl	Cl	Br	SH
acyl	acyl	Cl	Br	SMe
acyl	acyl	Cĺ	Br	SEt
acyl	acyl	Cl	Br	S-cyclopropyl
acyl	acyl	Cl	Br	F
acyl	acyl	Cl	Br	Cl
acyl	acyl	Cl	Br	Br
acyl	acyl	Cl	Br	I
acyl	amino acid	CI	Br	Н
acyl	amino acid	Cl	Br	NH ₂
acyl	amino acid	Cl	Br	NH-cyclopropyl
acyl	amino acid	Cl	Br	NH-methyl
acyl	amino acid	Cl	Br	NH-ethyl
acyl	amino acid	Cl	Br	NH-acetyl
acyl	amino acid	Cl	Br	OH
acyl	amino acid	Cl	Br	OMe
acyl	amino acid	Cl	Br	OEt
acyl	amino acid	Cl	Br	O-cyclopropyl
acyl	amino acid	Cl	Br	O-acetyl
acyl	amino acid	Cl	Br	SH
acyl	amino acid	Cl	Br	SMe
acyl	amino acid	Cl	Br	SEt
acyl	amino acid	Cl	Br	S-cyclopropyl
acyl	amino acid	Cl	Br	F
acyl	amino acid	Cl	Br	Cl
acyl	amino acid	Cl	Br	Br
acyl	amino acid	CI	Br	I
H	acyl	CI	Br	H
Н	acyl	Cl	Br	NH ₂

R ²	R ³	X ¹	X ²	Y
H	acyl	Cl	Br	NH-cyclopropyl
H	acyl	Cl	Br	NH-methyl
H	acyl	Cl	Br	NH-ethyl
H	acyl	Cl	Br	NH-acetyl
Н	acyl	Cl	Br	OH
H	acyl	Cl	Br	OMe
H	acyl	Cl	Br	OEt
H	acyl	Cl	Br	O-cyclopropyl
H	acyl	CI	Br	O-acetyl
H	acyl	Cl	Br	SH
H	acyl	Cl	Br	SMe
H	acyl	Cl	Br	SEt
H	acyl	Cl	Br	S-cyclopropyl
Н	acyl	Cl	Br	F
H	acyl	Cl	Br	Cl
H	acyl	Cl	Br	Br
H	acyl	Cl	Br	I
Н	amino acid	Cl	Br	Н
H	amino acid	Cl	Br	NH ₂
H	amino acid	Cl	Br	NH-cyclopropyl
H	amino acid	Cl	Br	NH-methyl
H	amino acid	Cl	Br	NH-ethyl
Н	amino acid	Cl	Br	NH-acetyl
H	amino acid	Cl	Br	OH
Н	amino acid	Cl	Br	OMe
H	amino acid	Cl	Br	OEt
H	amino acid	Cl	Br	O-cyclopropyl
H	amino acid	Cl	Br	O-acetyl
Н	amino acid	Cl	Br	SH
H	amino acid	Cl	Br	SMe
H	amino acid	Cl	Br	SEt
H	amino acid	Cl	Br	S-cyclopropyl
Н	amino acid	Cl	Br	F
H	amino acid	Cl	Br	Cl
H	amino acid	Cl	Br	Br
Н	amino acid	Cl	Br	I
amino acid	amino acid	Cl	Br	Н
amino acid	amino acid	Cl	Br	NH ₂
amino acid	amino acid	Cl	Br	NH-cyclopropyl
amino acid	amino acid	Cl	Br	NH-methyl
amino acid	amino acid	Cl	Br	NH-ethyl
amino acid	amino acid	Cl	Br	NH-acetyl
amino acid	amino acid	Cl	Br	ОН
amino acid	amino acid	C1	Br	OMe
amino acid	amino acid	Cl	Br	OEt
amino acid	amino acid	Cl	Br	O-cyclopropyl
'amino acid	amino acid	Cl	Br	O-acetyl

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	Cl	Br	SH
amino acid	amino acid	Cl	Br	SMe
amino acid	amino acid	Cl	Br	SEt
amino acid	amino acid	Cl	Br	S-cyclopropyl
amino acid	amino acid	Cl	Br	F
amino acid	amino acid	Cl	Br	Cl
amino acid	amino acid	Cl	Br	Br
amino acid	amino acid	Cl	Br	I
amino acid	H	Cl	Br	Н
amino acid	Н	Cl	Br	NH ₂
amino acid	H	Cl	Br	NH-cyclopropyl
amino acid	H	Cl	Br	NH-methyl
amino acid	H	Cl	Br	NH-ethyl
amino acid	H	Cl	Br	NH-acetyl
amino acid	Н	Cl	Br	OH
amino acid	Н	Cl	Br	OMe
amino acid	H	Cl	Br	OEt
amino acid	H	Cl	Br	O-cyclopropyl
amino acid	H	Cl	Br	O-acetyl
amino acid	H	Cl	Br	SH
amino acid	H	Cl	Br	SMe
amino acid	Н	Cl	Br	SEt
amino acid	Н	C1	Br	S-cyclopropyl
amino acid	H	Cl	Br	F
amino acid	H	Cl	Br	Cl
amino acid	H	Cl	Br	Br
amino acid	H	Cl	Br	I
amino acid	acyl	Cl	Br	. H
amino acid	acyl	Cl	Br	NH ₂
amino acid	acyl	Cl	Br	NH-cyclopropyl
amino acid	acyl	Cl	Br	NH-methyl
amino acid	acyl	C1	Br	NH-ethyl
amino acid	acyl	Cl	Br	NH-acetyl
amino acid	acyl	Cl	Br	OH
amino acid	acyl	Cl	Br	OMe
amino acid	acyl	Cl	Br	OEt
amino acid	acyl	C1	Br	O-cyclopropyl
amino acid	acyl	Cl	Br	O-acetyl
amino acid	acyl	Cl	Br	SH
amino acid	acyl	Cl	Br	SMe
amino acid	acyl	Cl	Br	SEt
amino acid	acyl	Cl	Br	S-cyclopropyl
amino acid	acyl	Cl	Br	F
amino acid	acyl	Cl	Br	Cl
amino acid	acyl	CI	Br	Br
amino acid	acyl	Cl	Br	I
acyl	H	F	Br	Н

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	Н	F	Br	NH ₂
acyl	H	F	Br	NH-cyclopropyl
acyl	H	F	Br	NH-methyl
acyl	Н	F	Br	NH-ethyl
acyl	Н	F	Br	NH-acetyl
acyl	Н	F	Br	OH
acyl	H	F	Br	OMe
acyl	H	F	Br	OEt
acyl	Н	F	Br	O-cyclopropyl
acyl	Н	F	Br	O-acetyl
acyl	Н	F	Br	SH
acyl	H	F	Br	SMe
acyl	H	F	Br	SEt
acyl	H	F	Br	S-cyclopropyl
acyl	H	F	Br	F
acyl	H	F	Br	Cl
acyl	H	F	Br	Br
acyl	H	F	Br	1
acyl	acyl	F	Br	H
acyl	acyl	F	Br	NH ₂
acyl	acyl	F	Br	NH-cyclopropyl
acyl	acyl	F	Br	NH-methyl
acyl	acyl	F	Br	NH-ethyl
acyl	acyl	F	Br	NH-acetyl
acyl	acyl	F	Br	OH OH
acyl	acyl	F	Br	OMe
acyl	acyl	F	Br	OEt
acyl	acyl	F	Br	O-cyclopropyl
acyl	acyl	F	Br	O-acetyl
acyl	acyl	F	Br	SH
acyl	acyl	F	Br	SMe
acyl	acyl	F	Br	SEt
acyl	acyl	F	Br	S-cyclopropyl
acyl	acyl	F	Br	F
acyl	acyl	F	Br	Cl
acyl	acyl	$\frac{1}{F}$	Br	Br
acyl	acyl	F	Br	I
acyl	amino acid	F	Br	H
acyl	amino acid	F	Br	NH ₂
acyl	amino acid	F	Br	NH-cyclopropyl
acyl	amino acid	F	Br	NH-methyl
acyl	amino acid	F	Br	
acyl		$\frac{F}{F}$		NH-ethyl
	amino acid	F	Br	NH-acetyl
acyl	amino acid		Br	OH
acyl	amino acid	F	Br	OMe
acyl	amino acid	F	Br	OEt
acyl	amino acid	F	Br_	O-cyclopropyl

R ²	R ³	X^1	X ²	Y
acyl	amino acid	F	Br	O-acetyl
acyl	amino acid	F	Br	SH
acyl	amino acid	F	Br	SMe
acyl	amino acid	F	Br	SEt
acyl	amino acid	F	Br	S-cyclopropyl
acyl	amino acid	F	Br	F
acyl	amino acid	F	Br	Cl
acyl	amino acid	F	Br	Br
acyl	amino acid	F	Br	I
H	acyl	F	Br	Н
H	acyl	F	Br	NH ₂
Н	acyl	F	Br	NH-cyclopropyl
H	acyl	F	Br	NH-methyl
H	acyl	F	Br	NH-ethyl
Н	acyl	F	Br	NH-acetyl
H	acyl	F	Br	OH
H	acyl	F	Br	OMe
Н	acyl	F	Br	OEt
H	acyl	F	Br	O-cyclopropyl
H	acyl	F	Br	O-acetyl
H	acyl	F	Br	SH
Н	acyl	F	Br	SMe
H	acyl	F	Br	SEt
H	acyl	F	Br	S-cyclopropyl
Н	acyl	F	Br	F
Н	acyl	F	Br	Cl
Н	acyl	F	Br	Br
H	acyl	F	Br	I
H	amino acid	F	Br	Н
H	amino acid	F	Br	NH ₂
Η	amino acid	F	Br	NH-cyclopropyl
H	amino acid	F	Br	NH-methyl
H	amino acid	F	Br	NH-ethyl
H	amino acid	F	Br	NH-acetyl
H	amino acid	F	Br	OH
H	amino acid	F	Br	OMe
Н	amino acid	F	Br	OEt
Н	amino acid	F	Br	O-cyclopropyl
H	amino acid	F	Br	O-acetyl
H	amino acid	F	Br	SH
Н	amino acid	F	Br	SMe
Н	amino acid	F	Br	SEt
H	amino acid	F	Br	S-cyclopropyl
H	amino acid	F	Br	F
H	amino acid	F	Br	Cl
Н	amino acid	F	Br	Br
Н	amino acid	F	Br	I

R ²	\mathbb{R}^3	X ¹	X^2	Y
amino acid	amino acid	F	Br	Н
amino acid	amino acid	F	Br	NH ₂
amino acid	amino acid	F	Br	NH-cyclopropyl
amino acid	amino acid	F	Br	NH-methyl
amino acid	amino acid	F	Br	NH-ethyl
amino acid	amino acid	F	Br	NH-acetyl
amino acid	amino acid	F	Br	OH
amino acid	amino acid	F	Br	OMe
amino acid	amino acid	F	Br	OEt
amino acid	amino acid	F	Br	O-cyclopropyl
amino acid	amino acid	F	Br	O-acetyl
amino acid	amino acid	F	Br	SH
amino acid	amino acid	F	Br	SMe
amino acid	amino acid	F	Br	SEt
amino acid	amino acid	F	Br	S-cyclopropyl
amino acid	amino acid	F	Br	F
amino acid	amino acid	F	Br	Cl
amino acid	amino acid	F	Br	Br
amino acid	amino acid	F	Br	Ī
amino acid	Н	F	Br	H
amino acid	H	F	Br	NH ₂
amino acid	H	F	Br	NH-cyclopropyl
amino acid	Н	F	Br	NH-methyl
amino acid	Н	F	Br	NH-ethyl
amino acid	H	F	Br	NH-acetyl
amino acid	Н	F	Br	ОН
amino acid	Н	F	Br	OMe
amino acid	H	F	Br	OEt
amino acid	H	F	Br	O-cyclopropyl
amino acid	H	F	Br	O-acetyl
amino acid	H	F	Br	SH
amino acid	H	F	Br	SMe
amino acid	Н	F	Br	SEt
amino acid	Н	F	Br	S-cyclopropyl
amino acid	Н	F	Br	F
amino acid	H	F	Br	Cl
amino acid	Н	F	Br	Br
amino acid	Н	F	Br ,	I
amino acid	acyl	F	Br	H
amino acid	acyl	F	Br	NH ₂
amino acid	acyl	F	Br	NH-cyclopropyl
amino acid	acyl	F	Br	NH-methyl
amino acid	acyl	F	Br	NH-ethyl
amino acid	acyl	F	Br	NH-acetyl
amino acid	acyl	F	Br	ОН
amino acid	acyl	F	Br	OMe
amino acid	acyl	\overline{F}	Br	OEt
			101	1020

R2R3X1X2Yamino acidacylFBrO-cycloproamino acidacylFBrO-acetyl	
amino acid acyl F Br O-acetyl	opvl
	-27-
amino acid acyl F Br SH	
amino acid acyl F Br SMe	
amino acid acyl F Br SEt	
amino acid acyl F Br S-cyclopro	npvl
amino acid acyl F Br F	271
amino acid acyl F Br Cl	
amino acid acyl F Br Br	
amino acid acyl F Br I	
acyl H I Br H	
acyl H NH ₂ Br H	
acyl H NH ₂ Br NH ₂	
acyl H NH ₂ Br NH-cyclog	- propyl
acyl H NH ₂ Br NH-methy	
acyl H NH ₂ Br NH-ethyl	1
acyl H NH ₂ Br NH-acetyl	
acyl H NH ₂ Br OH	
acyl H NH ₂ Br OMe	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	оруі
acylHNH2BrO-acetylacylHNH2BrSH	
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acyl H NH ₂ Br SEt	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	
acyl acyl NH ₂ Br H	
acyl acyl NH ₂ Br NH ₂	
acyl acyl NH ₂ Br NH-cyclo	
acyl acyl NH ₂ Br NH-methy	1
acyl acyl NH ₂ Br NH-ethyl	
acyl acyl NH ₂ Br NH-acetyl	
acyl acyl NH ₂ Br OH	
acyl acyl NH ₂ Br OMe	
acyl acyl NH ₂ Br OEt	
acyl acyl NH ₂ Br O-cyclopro	opyl
acyl acyl NH ₂ Br O-acetyl	
acyl acyl NH ₂ Br SH	
acyl acyl NH ₂ Br SMe	
acyl acyl NH ₂ Br SEt	
acyl acyl NH ₂ Br S-cyclopro	pyl
acyl acyl NH ₂ Br F	
1 1422 22	

acylacylNH2Bacylamino acidNH2Bacylamino acidNH2B	3r	Br I H NH2 NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe OEt O-cyclopropyl
acylamino acidNH2Bacylamino acidNH2B	3r	H NH2 NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe OEt
acylamino acidNH2Bacylamino acidNH2B	3r	NH ₂ NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe OEt
acylamino acidNH2Bacylamino acidNH2B	3r 3r 3r 3r 3r 3r 3r 3r	NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe OEt
acylamino acidNH2Bacylamino acidNH2B	Br Br Br Br Br Br Br Br Br	NH-methyl NH-ethyl NH-acetyl OH OMe OEt
acylamino acidNH2Bacylamino acidNH2B	3r 3r 3r 3r 3r 3r 3r 3r	NH-methyl NH-ethyl NH-acetyl OH OMe OEt
acylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2B	Br Br Br Br Br Br	NH-ethyl NH-acetyl OH OMe OEt
acylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2B	Br Br Br Br Br	NH-acetyl OH OMe OEt
acylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2Bacylamino acidNH2B	Br Br Br Br	OH OMe OEt
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Br Br Br	OEt
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Br Br	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3r	O-cyclopropyl
acyl amino acid NH ₂ B		
)-	O-acetyl
acyl amino acid NU D) [SH
	3r	SMe
	3r	SEt
acyl amino acid NH ₂ B	3r	S-cyclopropyl
acyl amino acid NH ₂ B	3r	F
	3r	Cl
acyl amino acid NH ₂ B	3r	Br
acyl amino acid NH ₂ B	3r	I
	3r	H
	3r	NH ₂
H acyl NH ₂ B	3r	NH-cyclopropyl
		NH-methyl
H acyl NH ₂ B		NH-ethyl
H acyl NH ₂ B	3r	NH-acetyl
H acyl NH ₂ B	3r	OH
H acyl NH ₂ B	3r	OMe
	3r	OEt
	3r	O-cyclopropyl
H acyl NH ₂ B	3r	O-acetyl
H acyl NH ₂ B	3r	SH
	3r	SMe
H acyl NH ₂ B	3r	SEt
	3r	S-cyclopropyl
	3r	F
	3r	Cl
	3r	Br
	3r	I
	3r	H
	3r	NH ₂
H amino acid NH ₂ B	3r	NH-cyclopropyl
H amino acid NH ₂ B		NH-methyl
		NH-ethyl
		NH-acetyl
	3r	ОН

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
Н	amino acid	NH ₂	Br	OMe
H	amino acid	NH ₂	Br	OEt
H	amino acid	NH ₂	Br	O-cyclopropyl
H	amino acid	NH ₂	Br	O-acetyl
H	amino acid	NH ₂	Br	SH
H	amino acid	NH ₂	Br	SMe
H	amino acid	NH ₂	Br	SEt
H	amino acid	NH ₂	Br	S-cyclopropyl
H	amino acid	NH ₂	Br	F
Н	amino acid	NH ₂	Br	Cl
H	amino acid	NH ₂	Br	Br
H	amino acid	NH ₂	Br	I
amino acid	amino acid	NH ₂	Br	H
amino acid	amino acid	NH ₂	Br	NH ₂
amino acid	amino acid	NH ₂	Br	
amino acid	amino acid			NH-cyclopropyl
amino acid	amino acid	NH ₂	Br Br	NH-methyl
amino acid		NH ₂		NH-ethyl
	amino acid	NH ₂	Br	NH-acetyl
amino acid	amino acid	NH ₂	Br	OH
amino acid	amino acid	NH ₂	Br	OMe
amino acid	amino acid	NH ₂	Br	OEt
amino acid	amino acid	NH ₂	Br	O-cyclopropyl
amino acid	amino acid	NH ₂	Br	O-acetyl
amino acid	amino acid	NH ₂	Br	SH
amino acid	amino acid	NH ₂	Br	SMe
amino acid	amino acid	NH ₂	Br	SEt
amino acid	amino acid	NH ₂	Br	S-cyclopropyl
amino acid	amino acid	NH ₂	Br	F
amino acid	amino acid	NH ₂	Br	Cl
amino acid	amino acid	NH ₂	Br	Br
amino acid	amino acid	NH ₂	Br	I
amino acid	H	NH ₂	Br	H
amino acid	H	NH ₂	Br	NH ₂
amino acid	H	NH ₂	Br	NH-cyclopropyl
amino acid	H	NH ₂	Br	NH-methyl
amino acid	H	NH ₂	Br	NH-ethyl
amino acid	H	NH ₂	Br	NH-acetyl
amino acid	H	NH ₂	Br	OH
amino acid	H	NH ₂	Br	OMe
amino acid	H_	NH ₂	Br	OEt
amino acid	Н	NH ₂	Br	O-cyclopropyl
amino acid	Н	NH ₂	Br	O-acetyl
amino acid	Н	NH ₂	Br	SH
amino acid	Н	NH ₂	Br	SMe
amino acid	H	NH ₂	Br	SEt
amino acid	H	NH ₂	Br	S-cyclopropyl
amino acid	H	NH ₂	Br	F.
anning dold		11112	121	

\mathbb{R}^2	R ³	X	\mathbf{X}^2	Y
amino acid	Н	NH ₂	Br	Cl
amino acid	Н	NH ₂	Br	Br
amino acid	Н	NH ₂	Br	I
amino acid	acyl	NH ₂	Br	H
amino acid	acyl	NH ₂	Br	NH ₂
amino acid	acyl	NH ₂	Br	NH-cyclopropyl
amino acid	acyl	NH ₂	Br	NH-methyl
amino acid	acyl	NH ₂	Br	NH-ethyl
amino acid	acyl	NH ₂	Br	NH-acetyl
amino acid	acyl	NH ₂	Br	OH
amino acid	acyl	NH ₂	Br	OMe
amino acid	acyl	NH ₂	Br	OEt
amino acid	acyl	NH ₂	Br	O-cyclopropyl
amino acid	acyl	NH ₂	Br	O-acetyl
amino acid	acyl	NH ₂	Br	SH SH
amino acid	acyl	NH ₂	Br	SMe
amino acid	acyl	NH ₂	Br	SEt
amino acid	acyl	NH ₂	Br	
amino acid	acyl	NH ₂	Br	S-cyclopropyl F
amino acid	acyl	NH ₂	Br	Cl
amino acid	acyl	NH ₂	Br	Br
amino acid	acyl	NH ₂	Br	I
acyl	H	SH	Br	H
acyl	H	SH	Br	NH ₂
acyl	H	SH	Br	NH-cyclopropyl
acyl	H	SH	Br	NH-methyl
acyl	H	SH .	Br	NH-ethyl
acyl	H	SH	Br	NH-acetyl
acyl	H	SH	Br	OH
acyl	H	SH	Br	OMe
acyl	H	SH	Br	OEt
acyl	H	SH	Br	
acyl	H	SH	Br	O-cyclopropyl O-acetyl
acyl	H	SH	Br	SH
acyl	H	SH		
acyl	H	SH	Br Br	SMe SEt
			 	
acyl	H	SH	Br	S-cyclopropyl F
acyl		SH	Br	<u> </u>
acyl	H	SH	Br	Cl
acyl	H	SH	Br	Br
acyl	H	SH	Br	I
acyl	acyl	SH	Br	H
acyl	acyl	SH	Br	NH ₂
acyl	acyl	SH	Br	NH-cyclopropyl
acyl	acyl	SH	Br	NH-methyl
acyl	acyl	SH	Br	NH-ethyl
acyl	acyl	SH	Br	NH-acetyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	acyl	SH	Br	OH
acyl	acyl	SH	Br	OMe
acyl	acyl	SH	Br	OEt
acyl	acyl	SH	Br	O-cyclopropyl
acyl	acyl	SH	Br	O-acetyl
acyl	acyl	SH	Br	SH
acyl	acyl	SH	Br	SMe
acyl	acyl	SH	Br	SEt
acyl	acyl	SH	Br	S-cyclopropyl
acyl	acyl	SH	Br	F
acyl	acyl	SH	Br	Cl
acyl	acyl	SH	Br	Br
acyl	acyl	SH	Br	I
acyl	amino acid	SH	Br	Н
acyl	amino acid	SH	Br	NH ₂
acyl	amino acid	SH	Br	NH-cyclopropyl
acyl	amino acid	SH	Br	NH-methyl
acyl	amino acid	SH	Br	NH-ethyl
acyl	amino acid	SH	Br	NH-acetyl
acyl	amino acid	SH	Br	OH
acyl	amino acid	SH	Br	OMe
acyl	amino acid	SH	Br	OEt
acyl	amino acid	SH	Br	O-cyclopropyl
acyl	amino acid	SH	Br	O-acetyl
acyl	amino acid	SH	Br	SH
acyl	amino acid	SH	Br	SMe
acyl	amino acid	SH	Br	SEt
acyl	amino acid	SH	Br	S-cyclopropyl
acyl	amino acid	SH	Br	F
acyl	amino acid	SH	Br	Cl
acyl	amino acid	SH	Br	Br
acyl	amino acid	SH	Br	I
H	acyl	SH	Br	H
H	acyl	SH	Br	NH ₂
H	acyl	SH	Br	NH-cyclopropyl
H	acyl	SH	Br	NH-methyl
H	acyl	SH	Br	NH-ethyl
Н	acyl	SH	Br	NH-acetyl
H	acyl	SH	Br	ОН
H	acyl	SH	Br	OMe
Н	acyl	SH	Br	OEt
Н	acyl	SH	Br	O-cyclopropyl
H	acyl	SH	Br	O-acetyl
H	acyl	SH	Br	SH
Н	acyl	SH	Br	SMe
Н	acyl	SH	Br	SEt
H	acyl	SH	Br	S-cyclopropyl

R ²	R ³	X ¹	X ²	Y
H	acyl	SH	Br	F
Н	acyl	SH	Br	Cl
H	acyl	SH	Br	Br
H	acyl	SH	Br	Ī
Н	amino acid	SH	Br	H
Н	amino acid	SH	Br	NH ₂
Н	amino acid	SH	Br	NH-cyclopropyl
H	amino acid	SH	Br	NH-methyl
Н	amino acid	SH	Br	NH-ethyl
Н	amino acid	SH	Br	NH-acetyl
Н	amino acid	SH	Br	OH
H	amino acid	SH	Br	OMe
Н	amino acid	SH	Br	OEt
H	amino acid	SH	Br	O-cyclopropyl
Н	amino acid	SH	Br	O-acetyl
Н	amino acid	SH	Br	SH
H	amino acid	SH	Br	SMe
Н	amino acid	SH	Br	SEt
Н	amino acid	SH	Br	S-cyclopropyl
Н	amino acid	SH	Br	F
Н	amino acid	SH	Br	Cl
Н	amino acid	SH	Br	Br
H	amino acid	SH	Br	I
amino acid	amino acid	SH	Br	Н
amino acid	amino acid	SH	Br	NH ₂
amino acid	amino acid	SH	Br	NH-cyclopropyl
amino acid	amino acid	SH	Br	NH-methyl
amino acid	amino acid	SH	Br	NH-ethyl
amino acid	amino acid	SH	Br	NH-acetyl
amino acid	amino acid	SH	Br	OH
amino acid	amino acid	SH	Br	OMe
amino acid	amino acid	SH	Br	OEt
amino acid	amino acid	SH	Br	O-cyclopropyl
amino acid	amino acid	SH	Br	O-acetyl
amino acid	amino acid	SH	Br	SH
amino acid	amino acid	SH	Br	SMe
amino acid	amino acid	SH	Br	SEt
amino acid	amino acid	SH	Br	S-cyclopropyl
amino acid	amino acid	SH	Br	F
amino acid	amino acid	SH	Br	Cl
amino acid	amino acid	SH	Br	Br
amino acid	amino acid	SH	Br	I
amino acid	Н	SH	Br	Н
amino acid	H	SH	Br	NH ₂
amino acid	Н	SH	Br	NH-cyclopropyl
	 		 	
amino acid	H	SH	Br	NH-methyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	Н	SH	Br	NH-acetyl
amino acid	H	SH	Br	OH
amino acid	H	SH	Br	OMe
amino acid	H	SH	Br	OEt
amino acid	H	SH	Br	O-cyclopropyl
amino acid	H	SH	Br	O-acetyl
amino acid	H	SH	Br	SH
amino acid	Н	SH	Br	SMe
amino acid	H	SH	Br	SEt
amino acid	H	SH	Br	S-cyclopropyl
amino acid	H	SH	Br	F
amino acid	H	SH	Br	Cl
amino acid	H	SH	Br	Br
amino acid	H	SH	Br	I
amino acid	acyl	SH	Br	Н
amino acid	acyl	SH	Br	NH ₂
amino acid	acyl	SH	Br	NH-cyclopropyl
amino acid	acyl	SH	Br	NH-methyl
amino acid	acyl	SH	Br	NH-ethyl
amino acid	acyl	SH	Br	NH-acetyl
amino acid	acyl	SH	Br	OH
amino acid	acyl	SH	Br	OMe
amino acid	acyl	SH	Br	OEt
amino acid	acyl	SH	Br	O-cyclopropyl
amino acid	acyl	SH	Br	O-acetyl
amino acid	acyl	SH	Br	SH
amino acid	acyl	SH	Br	SMe
amino acid	acyl	SH	Br	SEt
amino acid	acyl	SH	Br	S-cyclopropyl
amino acid	acyl	SH	Br.	F
amino acid	acyl	SH	Br	Cl
amino acid	acyl	SH	Br	Br
amino acid	acyl	SH	Br	I
acyl	Н	OH	Br	Ĥ
acyl	Н	ОН	Br	NH ₂
acyl	H	ОН	Br	NH-cyclopropyl
acyl	Н	ОН	Br	NH-methyl
acyl	H	ОН	Br	NH-ethyl
acyl	H	ОН	Br	NH-acetyl
acyl	H	ОН	Br	ОН
acyl	H	OH_	Br	OMe
acyl	H	OH	Br	OEt
acyl	H	ОН	Br	O-cyclopropyl
acyl	Н	ОН	Br	O-acetyl
acyl	H	ОН	Br	SH
acyl	H	OH	Br	SMe
acyl	Н	OH	Br	SEt

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	H	OH	Br	S-cyclopropyl
acyl	H	OH	Br	F
acyl	H	OH	Br	Cl
acyl	Н	OH	Br	Br
acyl	Н	OH	Br	I
acyl	acyl	ОН	Br	Н
acyl	acyl	ОН	Br	NH ₂
acyl	acyl	ОН	Br	NH-cyclopropyl
acyl	acyl	ОН	Br	NH-methyl
acyl	acyl	OH	Br	NH-ethyl
acyl	acyl	ОН	Br	NH-acetyl
acyl	acyl	OH	Br	ОН
acyl	acyl	ОН	Br	OMe
acyl	acyl	ОН	Br	OEt
acyl	acyl	ОН	Br	O-cyclopropyl
acyl	acyl	ОН	Br	O-acetyl
acyl	acyl	OH	Br	SH
acyl	acyl	OH	Br	SMe
acyl	acyl	ОН	Br	SEt
acyl	acyl	ОН	Br	S-cyclopropyl
acyl	acyl	OH	Br	F
acyl	acyl	ОН	Br	Cl
acyl	acyl	ОН	Br	Br
acyl	acyl	ОН	Br	I
acyl	amino acid	ОН	Br	Н
acyl	amino acid	ОН	Br	NH ₂
acyl	amino acid	OH	Br	NH-cyclopropyl
acyl	amino acid	OH	Br	NH-methyl
acyl	amino acid	ОН	Br	NH-ethyl
acyl	amino acid	OH	Br	NH-acetyl
acyl	amino acid	OH	Br	OH
acyl	amino acid	ОН	Br	OMe
acyl	amino acid	ОН	Br	OEt
acyl	amino acid	OH	Br	O-cyclopropyl
acyl	amino acid	OH	Br	O-acetyl
acyl	amino acid	OH	Br	SH
acyl	amino acid	ОН	Br	SMe
acyl	amino acid	ОН	Br	SEt
acyl	amino acid	OH	Br	S-cyclopropyl
acyl	amino acid	ОН	Br	F
acyl	amino acid	ОН	Br	Cl
acyl	amino acid	OH	Br	Br
acyl	amino acid	OH	Br	I
Н	acyl	ОН	Br	Н
H	acyl	OH	Br	NH ₂
Н	acyl	OH	Br	NH-cyclopropyl
Н	acyl	OH	Br	NH-methyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
Н	acyl	OH	Br	NH-ethyl
H	acyl	OH	Br	NH-acetyl
H	acyl	ОН	Br	OH
H	acyl	OH	Br	OMe
Н	acyl	ОН	Br	OEt
H	acyl	OH	Br	O-cyclopropyl
H	acyl	OH	Br	O-acetyl
H	acyl	OH	Br	SH
Н	acyl	OH	Br	SMe
H	acyl	OH	Br	SEt
H	acyl	OH	Br	S-cyclopropyl
H	acyl	OH	Br	F
H	acyl	OH	Br	Cl
Н	acyl	OH	Br	Br
H	acyl	ОН	Br	I
H	amino acid	OH	Br	Н
H	amino acid	ОН	Br	NH ₂
H	amino acid	OH	Br	NH-cyclopropyl
H	amino acid	OH	Br	NH-methyl
Н	amino acid	ОН	Br	NH-ethyl
Н	amino acid	OH	Br	NH-acetyl
H	amino acid	ОН	Br	OH
Н	amino acid	OH	Br	OMe
H	amino acid	OH	Br	OEt
H	amino acid	OH	Br	O-cyclopropyl
H	amino acid	ОН	Br	O-acetyl
H	amino acid	OH	Br	SH
Н	amino acid	ОН	Br	SMe
H	amino acid	OH	Br	SEt
H	amino acid	ОН	Br	S-cyclopropyl
H	amino acid	OH	Br	F
H	amino acid	ОН	Br	Cl
H	amino acid	OH	Br	Br
H	amino acid	OH	Br	I
amino acid	amino acid	OH	Br	H
amino acid	amino acid	OH	Br	NH ₂
amino acid	amino acid	ОН	Br	NH-cyclopropyl
amino acid	amino acid	OH	Br	NH-methyl
amino acid	amino acid	OH	Br	NH-ethyl
amino acid	amino acid	OH	Br	NH-acetyl
amino acid	amino acid	OH	Br	ОН
amino acid	amino acid	OH	Br	OMe
amino acid	amino acid	OH	Br	OEt
amino acid	amino acid	ОН	Br	O-cyclopropyl
amino acid	amino acid	OH	Br	O-acetyl
amino acid	amino acid	OH	Br	SH
amino acid	amino acid	OH	Br	SMe

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
amino acid	amino acid	OH	Br	SEt
amino acid	amino acid	OH	Br	S-cyclopropyl
amino acid	amino acid	OH	Br	F
amino acid	amino acid	OH	Br	Cl
amino acid	amino acid	OH	Br	Br
amino acid	amino acid	OH	Br	I
amino acid	Н	OH	Br	Н
amino acid	H	OH	Br	NH ₂
amino acid	Н	OH	Br	NH-cyclopropyl
amino acid	H	OH	Br	NH-methyl
amino acid	Н	OH	Br	NH-ethyl
amino acid	Н	ОН	Br	NH-acetyl
amino acid	H	ОН	Br	OH
amino acid	H	OH	Br	OMe
amino acid	H	OH	Br	OEt
amino acid	Н	OH	Br	O-cyclopropyl
amino acid	H	OH	Br	O-acetyl
amino acid	H	OH	Br	SH
amino acid	H	OH	Br	SMe
amino acid	Н	OH	Br	SEt
amino acid	H	OH	Br	S-cyclopropyl
amino acid	H	ОН	Br	F
amino acid	H	OH	Br	Cl
amino acid	H	ОН	Br	Br
amino acid	H	OH	Br	I
amino acid	acyl	OH	Br	H
amino acid	acyl	ОН	Br	NH ₂
amino acid	acyl	OH	Br	NH-cyclopropyl
amino acid	acyl	OH	Br	NH-methyl
amino acid	acyl	OH	Br	NH-ethyl
amino acid	acyl	OH	Br	NH-acetyl
amino acid	acyl	OH	Br	OH
amino acid	acyl	OH	Br	OMe
amino acid	acyl	OH	Br	OEt
amino acid	acyl	OH	Br	O-cyclopropyl
amino acid	acyl	OH	Br	O-acetyl
amino acid	acyl	OH	Br	SH
amino acid	acyl	OH	Br	SMe
amino acid	acyl	OH	Br	SEt
amino acid	acyl	OH	Br	S-cyclopropyl
amino acid	acyl	OH	Br	F
amino acid	acyl	OH	Br	Cl
amino acid	acyl	OH	Br	Br
amino acid	acyl	OH	Br	I
acyl	H	CH ₃	CI	Н
acyl	H	CH ₃	Cl	NH ₂
acyl	Н	CH ₃	Cl	NH-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	X^1	X ²	Y
acyl	Н	CH ₃	Cl	NH-methyl
acyl	H	CH ₃	Cl	NH-ethyl
acyl	Н	CH ₃	Cl	NH-acetyl
acyl	Н	CH ₃	Cl	ОН
acyl	Н	CH ₃	Cl	OMe
acyl	Н	CH ₃	Cl	OEt
acyl	H	CH ₃	Cl	O-cyclopropyl
acyl	H	CH ₃	Cl	O-acetyl
acyl	H	CH ₃	Cl	SH
acyl	Н	CH ₃	Cl	SMe
acyl	Н	CH ₃	Cl	SEt
acyl	H	CH ₃	CI	S-cyclopropyl
acyl	Н	CH ₃	Cl	F
acyl	H	CH ₃	Cl	Cl
acyl	Н	CH ₃	Cl	Br
acyl	H	CH ₃	Cl	Ī
acyl	acyl	CH ₃	Cl	Н
acyl	acyl	CH ₃	Cl	NH ₂
acyl	acyl	CH ₃	Cl	NH-cyclopropyl
acyl	acyl	CH ₃	Cl	NH-methyl
acyl	acyl	CH ₃	Cl	NH-ethyl
acyl	acyl	CH ₃	Cl	NH-acetyl
acyl	acyl	CH ₃	Cl	ОН
acyl	acyl	CH ₃	Cl	OMe
acyl	acyl	CH ₃	Cl	OEt
acyl	acyl	CH ₃	Cl	O-cyclopropyl
acyl	acyl	CH ₃	Cl	O-acetyl
acyl	acyl	CH ₃	Cl	SH
acyl	acyl	CH ₃	Cl	SMe
acyl	acyl	CH ₃	Cl	SEt
acyl	acyl	CH ₃	Cl	S-cyclopropyl
acyl	acyl	CH ₃	Cl	F
acyl	acyl	CH ₃	Cl	Cl
acyl	acyl	CH ₃	Cl	Br
acyl	acyl	CH ₃	Cl	I
acyl	amino acid	CH ₃	Cl	H
acyl	amino acid	CH ₃	Cl	NH ₂
acyl	amino acid	CH ₃	Cl	NH-cyclopropyl
acyl	amino acid	CH ₃	Cl	NH-methyl
acyl	amino acid	CH ₃	Cl	NH-ethyl
acyl	amino acid	CH ₃	Cl	NH-acetyl
acyl	amino acid	CH ₃	Cl	ОН
acyl	amino acid	CH ₃	Cl	OMe
acyl	amino acid	CH ₃	Cl	OEt
acyl	amino acid	CH ₃	Cl	O-cyclopropyl
acyl	amino acid	CH ₃	Cl	O-acetyl
acyl	amino acid	CH ₃	Cl	SH

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	amino acid	CH ₃	Cl	SMe
acyl	amino acid	CH ₃	Cl	SEt
acyl	amino acid	CH ₃	Cl	S-cyclopropyl
acyl	amino acid	CH ₃	Cl	F
acyl	amino acid	CH ₃	Cl	Cl
acyl	amino acid	CH ₃	Cl	Br
acyl	amino acid	CH ₃	Cl	I
H	acyl	CH ₃	Cl	H
H	acyl	CH ₃	Cl	NH ₂
H	acyl	CH ₃	Cl	NH-cyclopropyl
H	acyl	CH ₃	Cl	NH-methyl
H	acyl	CH ₃	Cl	NH-ethyl
Н	acyl	CH ₃	Cl	NH-acetyl
H	acyl	CH ₃	Cl	OH
H	acyl	CH ₃	Cl	OMe
Н	acyl	CH ₃	Cl	OEt
Н	acyl	CH ₃	CI	O-cyclopropyl
Н	acyl	CH ₃	Cl	O-acetyl
H	acyl	CH ₃	Cl	SH
H	acyl	CH ₃	Cl	SMe
Н	acyl	CH ₃	Cl	SEt
H	acyl	CH ₃	CI	S-cyclopropyl
H	acyl	CH ₃	Cl	F
Н	acyl	CH ₃	Cl	Cl
H	acyl	CH ₃	Cl	Br
H	acyl	CH ₃	Cl	I
Н	amino acid	CH ₃	Cl	H
Н	amino acid	CH ₃	Cl	NH ₂
H	amino acid	CH ₃	Cl	NH-cyclopropyl
H	amino acid	CH ₃	Cl	NH-methyl
H	amino acid	CH ₃	Cl	NH-ethyl
H	amino acid	CH ₃	Cl	NH-acetyl **
H	amino acid	CH ₃	Cl	OH
H	amino acid	CH ₃	Cl	OMe
H	amino acid	CH ₃	Cl	OEt
H	amino acid	CH ₃	Cl	O-cyclopropyl
H	amino acid	CH ₃	Cl	O-acetyl
H	amino acid	CH ₃	Cl	SH
H	amino acid	CH ₃	Cl	SMe
H	amino acid	CH ₃	Cl	SEt
H	amino acid	CH ₃	Cl	S-cyclopropyl
H	amino acid	CH ₃	Cl	F
Н	amino acid	CH ₃	Cl	Cl
H	amino acid	CH ₃	Cl	Br
H	amino acid	CH ₃	Cl	I
amino acid	amino acid	CH ₃	Cl	Н
amino acid	amino acid	CH ₃	Cl	NH ₂

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
amino acid	amino acid	CH ₃	Cl	NH-cyclopropyl
amino acid	amino acid	CH ₃	Cl	NH-methyl
amino acid	amino acid	CH ₃	Cl	NH-ethyl
amino acid	amino acid	CH ₃	Cl	NH-acetyl
amino acid	amino acid	CH ₃	Cl	OH
amino acid	amino acid	CH ₃	Cl	OMe
amino acid	amino acid	CH ₃	CI	OEt
amino acid	amino acid	CH ₃	Cl	O-cyclopropyl
amino acid	amino acid	CH ₃	Cl	O-acetyl
amino acid	amino acid	CH ₃	Cl	SH
amino acid	amino acid	CH ₃	CI	SMe
amino acid	amino acid	CH ₃	Cl	SEt
amino acid	amino acid	CH ₃	Cl	S-cyclopropyl
amino acid	amino acid	CH ₃	Cl	F
amino acid	amino acid	CH ₃	Cl	Cl
amino acid	amino acid	CH ₃	Cl	Br
amino acid	amino acid	CH ₃	Cl	I
amino acid	H	CH ₃	Cl	H
amino acid	Н	CH ₃	Cl	NH ₂
amino acid	Н	CH ₃	Cl	NH-cyclopropyl
amino acid	H	CH ₃	Cl	NH-methyl
amino acid	H	CH ₃	Cl	NH-ethyl
amino acid	H	CH ₃	CI	NH-acetyl
amino acid	H	CH ₃	Cl	ОН
amino acid	H	CH ₃	C1	OMe
amino acid	H	CH ₃	Cl	OEt
amino acid	H	CH ₃	Cl	O-cyclopropyl
amino acid	H	CH ₃	Cl	O-acetyl
amino acid	H	CH ₃	Cl	SH
amino acid	H	CH ₃	Cl	SMe
amino acid	H	CH ₃	Cl	SEt
amino acid	Н	CH ₃	CI	S-cyclopropyl
amino acid	Н	CH ₃	Cl	F
amino acid	H	CH ₃	Cl	Cl
amino acid	Н	CH ₃	Cl	Br
amino acid	H	CH ₃	Cl	I
amino acid	acyl	CH ₃	Cl	Н
amino acid	acyl	CH ₃	Cl	NH ₂
amino acid	acyl	CH ₃	Cl	NH-cyclopropyl
amino acid	acyl	CH ₃	Cl	NH-methyl
amino acid	acyl	CH ₃	Cl	NH-ethyl
amino acid	acyl	CH ₃	Cl	NH-acetyl
amino acid	acyl	CH ₃	Cl	ОН
amino acid	acyl	CH ₃	Cl	OMe
amino acid	acyl	CH ₃	Cl	OEt
amino acid	acyl	CH ₃	Cl	O-cyclopropyl
amino acid	acyl	CH ₃	CI	O-acetyl

R ²	R ³	$\mathbf{X}^{\mathbf{I}}$	X ²	Y
amino acid	acyl	CH ₃	Cl	SH
amino acid	acyl	CH ₃	Cl	SMe
amino acid	acyl	CH ₃	Cl	SEt
amino acid	acyl	CH ₃	Cl	S-cyclopropyl
amino acid	acyl	CH ₃	Cl	F
amino acid	acyl	CH ₃	Cl	Cl
amino acid	acyl	CH ₃	Cl	Br
amino acid	acyl	CH ₃	Cl	I
acyl	H	CF ₃	Ci	H
acyl	H	CF ₃	Cl	NH ₂
acyl	Н	CF ₃	CI	NH-cyclopropyl
acyl	Н	CF ₃	Cl	NH-methyl
acyl	Н	CF ₃	Cl	NH-ethyl
acyl	Н	CF ₃	Cl	NH-acetyl
acyl	H	CF ₃	Cl	ОН
acyl	H	CF ₃	Cl	OMe
acyl	H	CF ₃	Cl	OEt
acyl	Н	CF ₃	Cl	O-cyclopropyl
acyl	Н	CF ₃	Cl	O-acetyl
acyl	Н	CF ₃	Cl	SH
acyl	H	CF ₃	Cl	SMe
acyl	H	CF ₃	Cl	SEt
acyl	Н	CF ₃	Cl	S-cyclopropyl
acyl	H	CF ₃	Cl	F
acyl	Н	CF ₃	Cl	Cl
acyl	Н	CF ₃	Cl	Br
acyl	H	CF ₃	CI	I
acyl	acyl	CF ₃	Cl	Н
acyl	acyl	CF ₃	Cl	NH ₂
acyl	acyl	CF ₃	Cl	NH-cyclopropyl
acyl	acyl	CF ₃	Cl	NH-methyl
acyl	acyl	CF ₃	Cl	NH-ethyl
acyl	acyl	CF ₃	Cl	NH-acetyl
acyl	acyl	CF ₃	Cl	OH
acyl	acyl	CF ₃	Cl	ОМе
acyl	acyl	CF ₃	Cl	OEt
acyl	acyl	CF ₃	Cl	O-cyclopropyl
acyl	acyl	CF ₃	Cl	O-acetyl
acyl	acyl	CF ₃	Cl	SH
acyl	acyl	CF ₃	Cl	SMe
acyl	acyl	CF ₃	Cl	SEt
acyl	acyl	CF ₃	Cl	S-cyclopropyl
acyl	acyl	CF ₃	Cl	F
acyl	acyl	CF ₃	Cl	Cl
acyl	acyl	CF ₃	Cl	Br
acyl	acyl	CF ₃	Cl	I
acyl	amino acid	CF ₃	Cl	H

R ²	R ³	$\mathbf{X}^{\mathbf{I}}$	X ²	Y
acyl	amino acid	CF ₃	Cl	NH ₂
acyl	amino acid	CF ₃	Cl	NH-cyclopropyl
acyl	amino acid	CF ₃	CI	NH-methyl
acyl	amino acid	CF ₃	Ci	NH-ethyl
acyl	amino acid	CF ₃	Cl	NH-acetyl
acyl	amino acid	CF ₃	Cl	OH
acyl	amino acid	CF ₃	Cl	OMe
acyl	amino acid	CF ₃	CI	OEt
acyl	amino acid	CF ₃	Cl	O-cyclopropyl
acyl	amino acid	CF ₃	Cl	O-acetyl
acyl	amino acid	CF ₃	Cl	SH
acyl	amino acid	CF ₃	Cl	SMe
acyl	amino acid	CF ₃	Cl	SEt
acyl	amino acid	CF ₃	CI	S-cyclopropyl
acyl	amino acid	CF ₃	Cl	F
acyl	amino acid	CF ₃	Cl	Cl
acyl	amino acid	CF ₃	CI	Br
acyl	amino acid	CF ₃	CI	I
H	acyl	CF ₃	Cl	H
Н	acyl	CF ₃	CI	NH ₂
H	acyl	CF ₃	Cl	NH-cyclopropyl
Н	acyl	CF ₃	Cl	NH-methyl
H	acyl	CF ₃	Cl	NH-ethyl
H	acyl	CF ₃	Cl	NH-acetyl
H	acyl	CF ₃	Cl	OH
H	acyl	CF ₃	CI	OMe
H	acyl	CF ₃	Cl	OEt
H	acyl	CF ₃	Cl	O-cyclopropyl
Н	acyl	CF ₃	Cl	O-acetyl
Н	acyl	CF ₃	Cl	SH
H	acyl	CF ₃	Cl	SMe
Н	acyl	CF ₃	CI	SEt
H	acyl	CF ₃	Cl	S-cyclopropyl
H	acyl	CF ₃	Cl	F
H	acyl	CF ₃	Cl	Cl
H	acyl	CF ₃	Cl	Br
H	acyl	CF ₃	Cl	I
H	amino acid	CF ₃	Cl	H
H	amino acid	CF ₃	Cl	NH ₂
H	amino acid	CF ₃	Cl	NH-cyclopropyl
H	amino acid	CF ₃	Cl	NH-methyl
H	amino acid	CF ₃	Cl	NH-ethyl
Н	amino acid	CF ₃	Cl	NH-acetyl
H	amino acid	CF ₃	Cl	OH
Н	amino acid	CF ₃	Cl	OMe
Н	amino acid	CF ₃	Cl	OEt
Н	amino acid	CF ₃	Cl	O-cyclopropyl

\mathbb{R}^2	R ³	X ¹	X^2	Y
H	amino acid	CF ₃	Cl	O-acetyl
H	amino acid	CF ₃	Cl	SH
Н	amino acid	CF ₃	Cl	SMe
Н	amino acid	CF ₃	Cl	SEt
Н	amino acid	CF ₃	Cl	S-cyclopropyl
Н	amino acid	CF ₃	Cl	F
H	amino acid	CF ₃	Cl	Cl
Н	amino acid	CF ₃	Cl	Br
H	amino acid	CF ₃	Cl	I
amino acid	amino acid	CF ₃	Cl	Н
amino acid	amino acid	CF ₃	Cl	NH ₂
amino acid	amino acid	CF ₃	Cl	NH-cyclopropyl
amino acid	amino acid	CF ₃	Cl	NH-methyl
amino acid	amino acid	CF ₃	Cl	NH-ethyl
amino acid	amino acid	CF ₃	Cl	NH-acetyl
amino acid	amino acid	CF ₃	Cl	ОН
amino acid	amino acid	CF ₃	Cl	OMe
amino acid	amino acid	CF ₃	Cl	OEt
amino acid	amino acid	CF ₃	Cl	O-cyclopropyl
amino acid	amino acid	CF ₃	Cl	O-acetyl
amino acid	amino acid	CF ₃	Cl	SH
amino acid	amino acid	CF ₃	Cl	SMe
amino acid	amino acid	CF ₃	Cl	SEt
amino acid	amino acid	CF ₃	Cl	S-cyclopropyl
amino acid	amino acid	CF ₃	Cl	F
amino acid	amino acid	CF ₃	Cl	Cl
amino acid	amino acid	CF ₃	Cl	Br
amino acid	amino acid	CF ₃	Cl	I
amino acid	Н	CF ₃	Cl	H
amino acid	H	CF ₃	Cl	NH ₂
amino acid	H	CF ₃	Cl	NH-cyclopropyl
amino acid	H	CF ₃	Cl	NH-methyl
amino acid	Н	CF ₃	Cl	NH-ethyl
amino acid	H	CF ₃	Cl	NH-acetyl
amino acid	Н	CF ₃	Cl	OH
amino acid	Н	CF ₃	Cl	OMe
amino acid	Н	CF ₃	Cl	OEt
amino acid	Н	CF ₃	Cl	O-cyclopropyl
amino acid	Н	CF ₃	Cl	O-acetyl
amino acid	H	CF ₃	Cl	SH
amino acid	H	CF ₃	Cl	SMe
amino acid	Н	CF ₃	Cl	SEt
amino acid	Н	CF ₃	Cl	S-cyclopropyl
amino acid	H	CF ₃	Cl	F
amino acid	H	CF ₃	CI	CI
amino acid	H	CF ₃	Cl	Br
amino acid	H	CF ₃	Cl	I
	l 	1 ~ 3	1-21	1

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	acyl	CF ₃	Cl	H
amino acid	acyl	CF ₃	Cl	NH ₂
amino acid	acyl	CF ₃	Cl	NH-cyclopropyl
amino acid	acyl	CF ₃	Cl	NH-methyl
amino acid	acyl	CF ₃	Cl	NH-ethyl
amino acid	acyl	CF ₃	Cl	NH-acetyl
amino acid	acyl	CF ₃	Cl	OH
amino acid	acyl	CF ₃	CI	OMe
amino acid	acyl	CF ₃	Cl	OEt
amino acid	acyl	CF ₃	Cl	O-cyclopropyl
amino acid	acyl	CF ₃	Cl	O-acetyl
amino acid	acyl	CF ₃	Cl	SH SH
amino acid	acyl	CF ₃	CI	SMe
amino acid	acyl	CF ₃	CI	SEt
amino acid	acyl	CF ₃	Cl	
amino acid	acyl	CF ₃	Cl	S-cyclopropyl
amino acid		CF ₃	Cl	F Cl
amino acid	acyl acyl	CF ₃	Cl	
amino acid	acyl	CF ₃	Cl	Br I
acyl	H		CI	
	Н	Br		H
acyl	H	Br	Cl	NH ₂
acyl	H	Br	Cl	NH-cyclopropyl
acyl	H	Br	Cl	NH-methyl
acyl		Br	Cl	NH-ethyl
acyl	H	Br	Cl	NH-acetyl
acyl	H	Br	Cl	OH
acyl	H	Br	Cl	OMe
acyl	H	Br	Cl	OEt
acyl	H	Br	Cl	O-cyclopropyl
acyl	H	Br	Cl	O-acetyl
acyl	H	Br	Cl	SH
acyl	H	Br	Cl	SMe
acyl	H	Br	Cl	SEt
acyl	H	Br	Cl	S-cyclopropyl
acyl	H	Br	Cl	F
acyl	H	Br	Cl	Cl
acyl	H	Br	Cl	Br
acyl	H	Br	Cl	I
acyl	acyl	Br	Cl	Н
acyl	acyl	Br	Cl	NH ₂
acyl	acyl	Br	Cl	NH-cyclopropyl
acyl	acyl	Br	Cl	NH-methyl
acyl	acyl	Br	CI	NH-ethyl
acyl	acyl	Br	CI	NH-acetyl
acyl	acyl	Br	Cl	OH
acyl	acyl	Br	Cl	OMe
				
acyl	acyl	Br	Cl	OEt

\mathbb{R}^2	R ³	X	X ²	Y
acyl	acyl	Br	. Cl	O-cyclopropyl
acyl	acyl	Br	Cl	O-acetyl
acyl	acyl	Br	Cl	SH
acyl	acyl	Br	Cl	SMe
acyl	acyl	Br	Cl	SEt
acyl	acyl	Br	Cl	S-cyclopropyl
acyl	acyl	Br	Cl	F
acyl	acyl	Br	Cl	Cl
acyl	acyl	Br	Cl	Br
acyl	acyl	Br	Cl	Ī
acyl	amino acid	Br	Cl	H
acyl	amino acid	Br	Ci	NH ₂
acyl	amino acid	Br	CI	NH-cyclopropyl
acyl	amino acid	Br	CI	NH-methyl
acyl	amino acid	Br	Cl	NH-ethyl
acyl	amino acid	Br	Cl	NH-acetyl
acyl	amino acid	Br	Cl	OH
acyl	amino acid	Br	Cl	OMe
acyl	amino acid	Br	Cl	OEt
acyl	amino acid	Br	Cl	O-cyclopropyl
acyl	amino acid	Br	CI	O-acetyl
acyl	amino acid	Br	Cl	SH
acyl	amino acid	Br	Cl	SMe
acyl	amino acid	Br	Cl	SEt
acyl	amino acid	Br	Cl	S-cyclopropyl
acyl	amino acid	Br	CI	F
acyl	amino acid	Br	Ci	Cl
acyl	amino acid	Br	Cl	Br
acyl	amino acid	Br	Cl	I
H	acyl	Br	Cl	H
Н	acyl	Br	Cl	NH ₂
H	acyl	Br	CI	NH-cyclopropyl
H	acyl	Br	Cl	NH-methyl
H	acyl	Br	Cl	NH-ethyl
H	acyl	Br	Cl	NH-acetyl
H	acyl	Br	Cl	OH
H	acyl	Br	Cl	OMe
H	acyl	Br	Cl	OEt
H	acyl	Br	Cl	O-cyclopropyl
H	acyl	Br	Cl	O-acetyl
H	acyl	Br	Cl	SH SH
H	acyl	Br	Cl	SMe
H	acyl	Br	CI	SEt
H				
H	acyl	Br	Cl	S-cyclopropyl
H	acyl	Br	Cl	F
H	acyl	Br	Cl	Cl
_п	acyl	Br	Cl	Br

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
H	acyl	Br	Cl	I
H	amino acid	Br	Cl	H
H	amino acid	Br	Cl	NH ₂
H	amino acid	Br	Cl	NH-cyclopropyl
H	amino acid	Br	Cl	NH-methyl
Н	amino acid	Br	Cl	NH-ethyl
Н	amino acid	Br	Cl	NH-acetyl
H	amino acid	Br	CI	ОН
H	amino acid	Br	Cl	OMe
H	amino acid	Br	Cl	OEt
Н	amino acid	Br	Cl	O-cyclopropyl
H	amino acid	Br	Cl	O-acetyl
H	amino acid	Br	Cl	SH
Н	amino acid	Br	CI	SMe
H	amino acid	Br	Ci	SEt
H	amino acid	Br	Cl	S-cyclopropyl
H	amino acid	Br	Cl	F
Н	amino acid	Br	Cl	Cl
H	amino acid	Br	Cl	Br
Н	amino acid	Br	CI	T.
amino acid	amino acid	Br	Cl	H
amino acid	amino acid	Br	Cl	NH ₂
amino acid	amino acid	Br	Cl	NH-cyclopropyl
amino acid	amino acid	Br	Cl	NH-methyl
amino acid	amino acid	Br	Cl	NH-ethyl
amino acid	amino acid	Br	CI	NH-acetyl
amino acid	amino acid	Br	Cl	OH
amino acid	amino acid	Br	Cl	OMe
amino acid	amino acid	Br	Cl	OEt
amino acid	amino acid	Br	Cl	O-cyclopropyl
amino acid	amino acid	Br	Cl	O-acetyl
amino acid	amino acid	Br	CI	SH
amino acid	amino acid	Br	Cl	SMe
amino acid	amino acid	Br	Cl	SEt
amino acid	amino acid	Br	Cl	S-cyclopropyl
amino acid	amino acid	Br	Cl	F
amino acid	amino acid	Br	Cl	Cl
amino acid	amino acid	Br	Cl	Br
amino acid	amino acid	Br	Cl	Ī
amino acid	H	Br	CI	H
amino acid	Н	Br	CI	NH ₂
amino acid	Н	Br	Cl	NH-cyclopropyl
amino acid	Н	Br	CI	NH-methyl
amino acid				
ammo aciu	H	Br	Cl	NH-ethyl
amino acid	H	Br Br	Cl	NH-ethyl NH-acetyl
		+		NH-ethyl NH-acetyl OH

\mathbb{R}^2	\mathbb{R}^3	$\mathbf{X}^{\mathbf{I}}$	X ²	Y
amino acid	Н	Br	Cl	OEt
amino acid	Н	Br	Cl	O-cyclopropyl
amino acid	Н	Br	Cl	O-acetyl
amino acid	H	Br	Cl	SH
amino acid	H	Br	Cl	SMe
amino acid	Н	Br	Cl	SEt
amino acid	H	Br	Cl	S-cyclopropyl
amino acid	H	Br	Cl	F
amino acid	H	Br	Cl	Cl
amino acid	H	Br	Cl	Br
amino acid	H	Br	CI	I
amino acid	acyl	Br	Cl	H
amino acid	acyl	Br	Cl	NH ₂
amino acid	acyl	Br	Cl	NH-cyclopropyl
amino acid	acyl	Br	Cl	NH-methyl
amino acid	acyl	Br	Cl	NH-ethyl
amino acid	acyl	Br	Cl	NH-acetyl
amino acid	acyl	Br	Cl	OH
amino acid	acyl	Br	CI	OMe
amino acid	acyl	Br	Cl	OEt
amino acid	acyl	Br	Cl	O-cyclopropyl
amino acid	acyl	Br	Cl	O-acetyl
amino acid	acyl	Br	Cl	SH
amino acid	acyl .	Br	Cl	SMe
amino acid	acyl	Br	Cl	SEt
amino acid	acyl	Br	Cl	S-cyclopropyl
amino acid	acyl	Br	Cl	F
amino acid	acyl	Br	Cl	Cl
amino acid	acyl	Br	Cl	Br
amino acid	acyl	Br	Cl	I
acyl	H	Cl	Cl	H
acyl	H	Cl	Cl	NH ₂
acyl	Н	Cl	Cl	NH-cyclopropyl
acyl	Н	Cl	Cl	NH-methyl
acyl	Н	Cl	Cl	NH-ethyl
acyl	H	Cl	Cl	NH-acetyl
acyl	Н	Cl	Cl	ОН
acyl	Н	Cl	Cl	OMe
acyl	Н	Cl	Cl	OEt
acyl	Н	Cl	Cl	O-cyclopropyl
acyl	H	Cl	Cl	O-acetyl
acyl	H	Cl	Cl	SH
acyl	H	Cl	Cl	SMe
acyl	† 1	CI	Ci	SEt
acyl	H	Cl	Cl	S-cyclopropyl
acyl	H	Cl	Cl	F S-cyclopropy1
acyl	H	Cl	Cl	Cl
	1 ***	101	L CI	101

\mathbb{R}^2	R ³	$\overline{\mathbf{X}^{1}}$	X ²	Y
acyl	H	Cl	Cl	Br
acyl	Н	Cl	Cl	I
acyl	acyl	Cl	Cl	Н
acyl	acyl	Cl	Cl	NH ₂
acyl	acyl	Cl	Cl	NH-cyclopropyl
acyl	acyl	Cl	Cl	NH-methyl
acyl	acyl	Cl	Cl	NH-ethyl
acyl	acyl	Cl	Cl	NH-acetyl
acyl	acyl	Cl	C1	ОН
acyl	acyl	Cl	Cl	OMe
acyl	acyl	Cl	Cl	OEt
acyl	acyl	Cl	Cl	O-cyclopropyl
acyl	acyl	Cl	Cl	O-acetyl
acyl	acyl	Cl	Cl	SH
acyl	acyl	Cl	Cl	SMe
acyl	acyl	Cl	Cl	SEt
acyl	acyl	Cl	Cl	S-cyclopropyl
acyl	acyl	Cl	Cl	F
acyl	acyl	Cl	Cl	Cl
acyl	acyl	Cl	Cl	Br
acyl	acyl	Cl	Cl	I .
acyl	amino acid	Cl	Cl	Н
acyl	amino acid	Cl	Cl	NH ₂
acyl	amino acid	Cl	Cl	NH-cyclopropyl
acyl	amino acid	Cl	Cl	NH-methyl
acyl	amino acid	Cl	Cl	NH-ethyl
acyl	amino acid	Cl	Cl	NH-acetyl
acyl	amino acid	Cl	Cl	ОН
acyl	amino acid	Cl	Cl	OMe
acyl	amino acid	Cl	Cl	OEt
acyl	amino acid	Cl	Cl	O-cyclopropyl
acyl	amino acid	Cl	Cl	O-acetyl
acyl	amino acid	Cl	Cl	SH
acyl	amino acid	Cl	Cl	SMe
acyl	amino acid	Cl	Cl	SEt
acyl	amino acid	Cl	Cl	S-cyclopropyl
acyl	amino acid	Cl	Cl	F
acyl	amino acid	Cl	Cl	Cl
acyl	amino acid	Cl	Cl	Br
acyl	amino acid	Cl	C1	I
H	acyl	Cl	Cl	H
H	acyl	Cl	,Cl	NH ₂
H	acyl	Cl	Cl	NH-cyclopropyl
H	acyl	Cl	Cl	NH-methyl
Н	acyl	Cl	Cl	NH-ethyl
Н	acyl	Cl	Cl	NH-acetyl
Н	acyl	Cl	Cl	ОН

R ²	R ³	X ¹	X^2	Y
H	acyl	Cl	Cl	OMe
Н	acyl	Cl	Cl	OEt
Н	acyl	Cl	Cl	O-cyclopropyl
Н	acyl	Cl	Cl	O-acetyl
H	acyl	Cl	Cl	SH
H	acyl	Cl	Cl	SMe
H	acyl	Cl	Cl	SEt
H	acyl	Cl	Cl	S-cyclopropyl
Н	acyl	Cl	Cl	F
Н	acyl	Cl	Cl	Cl
Н	acyl	Cl	Cl	Br
H	acyl	Cl	Cl	Ī
Н	amino acid	Cl	Cl	H
Н	amino acid	Cl	Cl	NH ₂
Н	amino acid	Cl	Cl	NH-cyclopropyl
Н	amino acid	Cl	Cl	NH-methyl
H	amino acid	Cl	Cl	NH-ethyl
H	amino acid	Cl	Cl	NH-acetyl
H	amino acid	Cl	Cl	OH
H	amino acid	Cl	Cl	OMe
H	amino acid	Cl	Cl	OEt
Н	amino acid	Cl	Cl	O-cyclopropyl
<u>H</u>	amino acid	Cl	C1	O-acetyl
H	amino acid	Cl	Cl	SH
H	amino acid	Cl	Cl	SMe
H	amino acid	Cl	Cl	SEt
Н	amino acid	Cl	Cl	S-cyclopropyl
Н	amino acid	Cl	Cl	<u> </u>
Н	amino acid	Cl	Cl	Cl
Н	amino acid	Cl	Cl	Br
H	amino acid	Cl	Cl	I
amino acid	amino acid	Cl	Cl	H
amino acid	amino acid	Cl	Cl	NH ₂
amino acid	amino acid	Cl	Cl	NH-cyclopropyl
amino acid	amino acid	Cl	Cl	NH-methyl
amino acid	amino acid	Cl	Cl	NH-ethyl
amino acid	amino acid	Cl	Cl	NH-acetyl
amino acid	amino acid	Cl	Cl	OH
amino acid	amino acid	Cl	Cl	OMe
amino acid	amino acid	Cl	Cl	OEt
amino acid	amino acid	Cl	Cl	O-cyclopropyl
amino acid	amino acid	Cl	Cl	O-acetyl
amino acid	amino acid	Cl	Cl	SH
amino acid	amino acid	Cl	Cl	SMe
amino acid	amino acid	Cl	Cl	SEt
amino acid	amino acid	Cl	Cl	S-cyclopropyl
amino acid	amino acid	Cl	C1_	F

\mathbb{R}^2	\mathbb{R}^3	X^1	X ²	Y
amino acid	amino acid	Cl	Cl	Cl
amino acid	amino acid	Cl	Cl	Br
amino acid	amino acid	Cl	Cl	I
amino acid	H	Cl	Cl	H
amino acid	H	Cl	Cl	NH ₂
amino acid	Н	Cl	Cl	NH-cyclopropyl
amino acid	H	Cl	Cl	NH-methyl
amino acid	H	Cl	Cl	NH-ethyl
amino acid	Н	Cl	CI	NH-acetyl
amino acid	H	Cl	Cl	OH
amino acid	H	CI	Cl	OMe
amino acid	H	Cl	Cl	OEt
amino acid	H	Cl	Cl	O-cyclopropyl
amino acid	H	Cl	Cl	O-acetyl
amino acid	H	Cl	Cl	SH
amino acid	H	Cl	Cl	SMe
amino acid	H	Cl	Cl	SEt
amino acid	H	Cl	Cl	S-cyclopropyl
amino acid	H	Cl	Cl	F F
amino acid	H	Cl	Cl	Cl
amino acid	H	Cl	Cl	Br
amino acid	H	Cl	Cl	
amino acid	acyl	Cl	Cl	H
amino acid	acyl	Cl	Cl	NH ₂
amino acid	acyl	Cl	Cl	NH-cyclopropyl
amino acid	acyl	Cl	Cl	NH-methyl
amino acid	acyl	Cl	Cl	NH-ethyl
amino acid	acyl	Cl	CI	NH-acetyl
amino acid	acyl	Cl	Cl	OH OH
amino acid	acyl	Cl	Cl	OMe
amino acid	acyl	Cl	Cl	OEt
amino acid	acyl	Cl	Cl	O-cyclopropyl
amino acid	acyl	Cl	Cl	
amino acid	acyl	Cl	Cl	O-acetyl SH
amino acid	acyl	Cl	Cl	SMe
amino acid		Cl	Cl	
amino acid	acyl			Sevelenceral
	acyl	Cl	Cl	S-cyclopropyl
amino acid	acyl	Cl	Cl	F
<u> </u>	acyl	Cl	Cl	Cl
amino acid	acyl	Cl	Cl	Br
amino acid	acyl	Cl	CI	I
acyl	H	F	Cl	H
acyl	H	F	Cl	NH ₂
acyl	H	F	Cl	NH-cyclopropyl
acyl	H	F	Cl	NH-methyl
acyl	H	F	C1	NH-ethyl_
acyl	<u>H</u>	_ F	Cl	NH-acetyl

\mathbb{R}^2	R ³	X¹	X ²	Y
acyl	H	F	Cl	OH
acyl	H	F	CI	OMe
acyl	H	F	Cl	OEt
acyl	H	F	Cl	O-cyclopropyl
acyl	Н	F	Cl	O-acetyl
acyl	H	F	Cl	SH
acyl	H	F	Cl	SMe
acyl	H	F	Cl	SEt
acyl	H	F	Cl	S-cyclopropyl
acyl	Н	F	Cl	F
acyl	H	F	Cl	Cl
acyl	H	F	Cl	Br
acyl	Н	F	Cl	I
acyl	acyl	F	Cl	H
acyl	acyl	F	Cl	NH ₂
acyl	acyl	F	Cl	NH-cyclopropyl
acyl	acyl	F	Cl	NH-methyl
acyl	acyl	F	Cl	NH-ethyl
acyl	acyl	F	Cl	NH-acetyl
acyl	acyl	F	Cl	ОН
acyl	acyl	·F	Cl	OMe
acyl	acyl	F	Cl	OEt
acyl	acyl	F	Cl	O-cyclopropyl
acyl	acyl	F	Cl	O-acetyl
acyl	acyl	F	Cl	SH
acyl	acyl	F	Cl	SMe
acyl	acyl	F	Cl	SEt
acyl	acyl	F	Cl	S-cyclopropyl
acyl	acyl	F	Cl	F
acyl	acyl	F	Cl	Cl
acyl	acyl	F	Cl	Br
acyl	acyl	F	Cl	I
acyl	amino acid	F	Cl	Н
acyl	amino acid	F	Cl	NH ₂
acyl	amino acid	F	Cl	NH-cyclopropyl
acyl	amino acid	F.	Cl	NH-methyl
acyl	amino acid	F	C1	NH-ethyl
acyl	amino acid	F	Cl	NH-acetyl
acyl	amino acid	F	Cl	OH
acyl	amino acid	F	Cl	OMe
acyl	amino acid	F	Cl	OEt
acyl	amino acid	F	Cl	O-cyclopropyl
acyl	amino acid	F	Cl	O-acetyl
acyl	amino acid	F	Cl	SH
acyl	amino acid	F	Cl	SMe
acyl	amino acid	F	Cl	SEt
, -			,	

R ²	\mathbb{R}^3	X ¹	X^2	Y
acyl	amino acid	F	Cl	F
acyl	amino acid	F	Cl	Cl
acyl	amino acid	F	Cl	Br
acyl	amino acid	F	Cl	I
Н	acyl	F	Cl	H
H	acyl	F	Cl	NH ₂
H	acyl	F	Cl	NH-cyclopropyl
Н	acyl	F	Cl	NH-methyl
H	acyl	F	Cl	NH-ethyl
H	acyl	F	Cl	NH-acetyl
H	acyl	F	Cl	ОН
H	acyl	F	Cl	OMe
H	acyl	F	Cl	OEt
H	acyl	F	Cl	O-cyclopropyl
H	acyl	F	Cl	O-acetyl
H	acyl	F	Cl	SH
H	acyl	F	Cl	SMe
H	acyl	F	Cl	SEt
H	acyl	F	Cl	S-cyclopropyl
H	acyl	F	Cl	F
H	acyl	F	Cl	Cl
H	acyl	F	Cl	Br
H	acyl	F	Cl	I
H	amino acid	F	Cl	Н
H	amino acid	F	Cl	NH ₂
H	amino acid	F	Cl	NH-cyclopropyl
H	amino acid	F	Cl	NH-methyl
H	amino acid	F	Cl	NH-ethyl
H	amino acid	F	Cl	NH-acetyl
H	amino acid	F	Cl	OH
H	amino acid	F	Cl	OMe
H	amino acid	F	CI	OEt
H	amino acid	F	Cl	O-cyclopropyl
H	amino acid	F	Cl	O-acetyl
H	amino acid	F	Cl	SH
H	amino acid	F	Cl	SMe
H	amino acid	F	Cl	SEt
H	amino acid	F	Cl	S-cyclopropyl
H	amino acid	F	/ Cl	F
H	amino acid	F	Cl	Cl
H	amino acid	F	Cl	Br
H	amino acid	F	Cl	I
amino acid	amino acid	F	Cl	H
amino acid	amino acid	F	Cl	NH ₂
amino acid	amino acid	F	Cl	NH-cyclopropyl
amino acid	amino acid	F	. Cl	NH-methyl
amino acid	amino acid	F	Cl	NH-ethyl

R ²	R ³	X¹	X ²	T Y
amino acid	amino acid	F	Cl	NH-acetyl
amino acid	amino acid	F	CI	OH
amino acid	amino acid	F	Cl	OMe
amino acid	amino acid	F	Cl	OEt
amino acid	amino acid	F	Cl	O-cyclopropyl
amino acid	amino acid	F	Cl	O-acetyl
amino acid	amino acid	F	CI	SH
amino acid	amino acid	F	CI	SMe
amino acid	amino acid	F	CI	SEt
amino acid	amino acid	F	Cl	S-cyclopropyl
amino acid	amino acid	F	Cl	F
amino acid	amino acid	F	Cl	Cl
amino acid	amino acid	F	Cl	Br
amino acid	amino acid	F	CI	I
amino acid	H	F	Cl	H
amino acid	H	$\frac{1}{F}$	Cl	NH ₂
amino acid	H	F	Cl	NH-cyclopropyl
amino acid	H	F	Cl	NH-methyl
amino acid	H	F	Cl	NH-ethyl
amino acid	H	$-\frac{1}{F}$	CI	NH-acetyl
amino acid	H	F	Cl	OH
amino acid	H	F	Cl	OMe
amino acid	H	$\frac{1}{F}$	Cl	OEt
amino acid	H	F	Cl	O-cyclopropyl
amino acid	H	F	Cl	O-acetyl
amino acid	Н	F	CI	SH
amino acid	H	F	Cl	SMe
amino acid	H	F	CI	SEt
amino acid	H	F	Cl	S-cyclopropyl
amino acid	H	F	Cl	F
amino acid	Н	F	Cl	Cl
amino acid	H	F	CI	Br
amino acid	H	F	Cl	I I
amino acid	acyl	F	Cl	H
amino acid	acyl	F	Cl	NH ₂
amino acid	acyl	F	Cl	NH-cyclopropyl
amino acid	acyl	F	Cl	NH-methyl
amino acid	acyl	F	Cl	NH-ethyl
amino acid	acyl	$\frac{1}{F}$	Cl	NH-acetyl
amino acid	acyl	F	Cl	OH
amino acid	acyl	$\frac{1}{F}$	Cl	OMe
amino acid	acyl	F	Cl	OEt
amino acid	acyl	F	CI	O-cyclopropyl
amino acid	acyl	$\frac{1}{F}$	Cl	O-acetyl
amino acid	acyl	F	Cl	SH
amino acid	acyl	F	Cl	SMe
amino acid	acyl	F	Cl	SEt
annio acia	acyı			SEI

R ²	\mathbb{R}^3	X ¹	X ²	Y
amino acid	acyl	F	Cl	S-cyclopropyl
amino acid	acyl	F	Cl	F
amino acid	acyl	F	Cl	Cl
amino acid	acyl	F	Cl	Br
amino acid	acyl	F	Cl	I
acyl	H	NH ₂	Cl	H
acyl	\overline{H}	NH ₂	Cl	NH ₂
acyl	Н	NH ₂	Cl	NH-cyclopropyl
acyl	Н	NH ₂	Cl	NH-methyl
acyl	Н	NH ₂	Cl	NH-ethyl
acyl	Н	NH ₂	Cl	NH-acetyl
acyl	Н	NH ₂	Cl	ОН
acyl	Н	NH ₂	Cl	OMe
acyl	H	NH ₂	Cl	OEt
acyl	Н	NH ₂	Cl	O-cyclopropyl
acyl	H	NH ₂	Cl	O-acetyl
acyl	Н	NH ₂	Cl	SH
acyl	Н	NH ₂	Cl	SMe
acyi	H	NH ₂	CI	SEt
acyl	Н	NH ₂	Cl	S-cyclopropyl
acyl	Н	NH ₂	Cl	F
acyl	Н	NH ₂	Cl	Cl
acyl	H	NH ₂	Cl	Br
acyl	H	NH ₂	Cl	I
acyl	acyl	NH ₂	Cl	Н
acyl	acyl	NH ₂	Cl	NH ₂
acyl	acyl	NH ₂	Cl	NH-cyclopropyl
acyl	acyl	NH ₂	Cl	NH-methyl
acyl	acyl	NH ₂	Cl	NH-ethyl
acyl	acyl	NH ₂	Cl	NH-acetyl
acyl	acyl	NH ₂	Cl	OH
acyl	acyl	NH ₂	Cl	OMe
acyl	acyl	NH ₂	Cl	OEt
acyl	acyl	NH ₂	Cl	O-cyclopropyl
acyl	acyl	NH ₂	Cl	O-acetyl
acyl	acyl	NH ₂	Cl	SH
acyl	acyl	NH ₂	Cl	SMe
acyl	acyl	NH ₂	Cl	SEt
acyl	acyl	NH ₂	Cl	S-cyclopropyl
acyl	acyl	NH ₂	Cl	F
acyl	acyl	NH ₂	Cl	Cl
acyl	acyl	NH ₂	Cl	Br
acyl	acyl	NH ₂	Cl	I
acyl	amino acid	NH ₂	CI	Н
acyl	amino acid	NH ₂	Cl	NH ₂
acyl	amino acid	NH ₂	Cl	NH-cyclopropyl
acyl	amino acid	NH ₂	Cl	NH-methyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	\mathbf{X}^2	Y
acyl	amino acid	NH ₂	Cl	NH-ethyl
acyl	amino acid	NH ₂	Cl	NH-acetyl
acyl	amino acid	NH ₂	Cl	OH
acyl	amino acid	NH ₂	Cl	OMe
acyl	amino acid	NH ₂	Cl	OEt
acyl	amino acid	NH ₂	Cl	O-cyclopropyl
acyl	amino acid	NH ₂	Cl	O-acetyl
acyl	amino acid	NH ₂	Cl	SH
acyl	amino acid	NH ₂	Cl	SMe
acyl	amino acid	NH ₂	Cl	SEt
acyl	amino acid	NH ₂	Cl	S-cyclopropyl
acyl	amino acid	NH ₂	Cl	F
acyl	amino acid	NH ₂	Cl	Cl
acyl	amino acid	NH ₂	Cl	Br
acyl	amino acid	NH ₂	Cl	Ī
H	acyl	NH ₂	Cl	Н
Н	acyl	NH ₂	Cl	NH ₂
H	acyl	NH ₂	Cl	NH-cyclopropyl
H	acyl	NH ₂	Cl	NH-methyl
Н	acyl	NH ₂	Cl	NH-ethyl
H /	acyl	NH ₂	Cl	NH-acetyl
Н	acyl	NH ₂	Cl	OH
Н	acyl	NH ₂	Cl	OMe
Н	acyl	NH ₂	Cl	OEt
Н	acyl	NH ₂	Cl	O-cyclopropyl
Н	acyl	NH ₂	Cl	O-acetyl
Н	acyl	NH ₂	Cl	SH
H	acyl	NH ₂	Cl	SMe
Н	acyl	NH ₂	Cl	SEt
Н	acyl	NH ₂	Cl	S-cyclopropyl
H	acyl	NH ₂	Cl	F
H	acyl	NH ₂	Cl	Cl
H	acyl	NH ₂	Cl	Br
Н	acyl	NH ₂	Cl	I
H	amino acid	NH ₂	Cl	Н
H	amino acid	NH ₂	Cl	NH ₂
Н	amino acid	NH ₂	Cl	NH-cyclopropyl
H	amino acid	NH ₂	Cl	NH-methyl
H	amino acid	NH ₂	Cl	NH-ethyl
H	amino acid	NH ₂	Cl	NH-acetyl
Н	amino acid	NH ₂	Cl	OH
Н	amino acid	NH ₂	Cl	OMe
Н	amino acid	NH ₂	Cl	OEt
Н	amino acid	NH ₂	Cl	O-cyclopropyl
Н	amino acid	NH ₂	Cl	O-acetyl
Н	amino acid	NH ₂	Cl	SH
H	amino acid	NH ₂	Cl	SMe

\mathbb{R}^2	R ³	X¹	X ²	Y
Н	amino acid	NH ₂	Cl	SEt
H	amino acid	NH ₂	Cl	S-cyclopropyl
Н	amino acid	NH ₂	Cl	F
H	amino acid	NH ₂	Cl	Cl
H	amino acid	NH ₂	Cl	Br
H	amino acid	NH ₂	Ci	I
amino acid	amino acid	NH ₂	Cl	H
amino acid	amino acid	NH ₂	Cl	NH ₂
amino acid	amino acid	NH ₂	C1	NH-cyclopropyl
amino acid	amino acid	NH ₂	Cl	NH-methyl
amino acid	amino acid	NH ₂	Cl	NH-ethyl
amino acid	amino acid	NH ₂	Cl	NH-acetyl
amino acid	amino acid	NH ₂	Cl	OH
amino acid	amino acid	NH ₂	Cl	OMe
amino acid	amino acid	NH ₂	Cl	OEt
amino acid	amino acid	NH ₂	Cl	O-cyclopropyl
amino acid	amino acid	NH ₂	Cl	O-acetyl
amino acid	amino acid	NH ₂	Cl	SH
amino acid	amino acid	NH ₂	Cl	SMe
amino acid	amino acid	NH ₂	Cl	SEt
amino acid	amino acid	NH ₂	Cl	S-cyclopropyl
amino acid	amino acid	NH ₂	Cl	F
amino acid	amino acid	NH ₂	Cl	Cl
amino acid	amino acid	NH ₂	Cl	Br
amino acid	amino acid	NH ₂	Cl	I
amino acid	H	NH ₂	Cl	H
amino acid	Н	NH ₂	Cl	NH ₂
amino acid	H	NH ₂	CI	NH-cyclopropyl
amino acid	Н	NH ₂	Cl	NH-methyl
amino acid	Н	NH ₂	Cl	NH-ethyl
amino acid	H	NH ₂	Cl	NH-acetyl
amino acid	Н	NH ₂	Cl	OH
amino acid	H	NH ₂	Cl	OMe
amino acid	H	NH ₂	Cl	OEt
amino acid	Н	NH ₂	Cl	O-cyclopropyl
amino acid	H	NH ₂	Cl	O-acetyl
amino acid	H	NH ₂	Cl	SH
amino acid	H	NH ₂	Cl	SMe
amino acid	H	NH ₂	Cl	SEt
amino acid	H	NH ₂	Cl	S-cyclopropyl
amino acid	H	NH ₂	Cl	F
amino acid	H	NH ₂	Cl	Cl
amino acid	H	NH ₂	Cl	Br
amino acid	H	NH ₂	Cl	I
amino acid	acyl	NH ₂	Cl	H
amino acid	acyl	NH ₂	Cl	NH ₂
amino acid	acyl	NH ₂	Cl	NH-cyclopropyl

R ²	R ³	$\mathbf{X}^{\mathbf{I}}$	X ²	Y
amino acid	acyl	NH ₂	Cl	NH-methyl
amino acid	acyl	NH ₂	Cl	NH-ethyl
amino acid	acyl	NH ₂	Cl	NH-acetyl
amino acid	acyl	NH ₂	Cl	OH
amino acid	acyl	NH ₂	Cl	OMe
amino acid	acyl	NH ₂	CI	OEt
amino acid	acyl	NH ₂	Cl	O-cyclopropyl
amino acid	acyl	NH ₂	Cl	O-acetyl
amino acid	acyl	NH ₂	Cl	SH
amino acid	acyl	NH ₂	Cl	SMe
amino acid	acyl	NH ₂	Cl	SEt
amino acid	acyl	NH ₂	Cl	S-cyclopropyl
amino acid	acyl	NH ₂	Cl	F F
amino acid	acyl	NH ₂	Cl	Cl
amino acid	acyl	NH ₂	Cl	Br
amino acid	acyl	NH ₂	Cl	I
acyl	H	SH	Cl	H
acyl	H	SH	Cl	NH ₂
acyl	Н	SH	Cl	
acyl	H	SH	Cl	NH-cyclopropyl
acyl	H	SH	Cl	NH-methyl NH-ethyl
acyl	H	SH	Cl	
	H	SH	Cl	NH-acetyl OH
acyl	Н	SH	Cl	OMe
acyl	H	SH	Cl	OEt
acyl acyl	H	SH	Cl	
acyl	Н	SH	Cl	O-cyclopropyl
	H	SH	Cl	O-acetyl SH
acyl	H	SH	Cl	
acyl	H	SH	Cl	SMe
acyl	H	SH	Cl	SEt
acyl	H	SH		S-cyclopropyl
acyl	H	<u> </u>	Cl	F
acyl	H	SH	Cl	Cl
acyl		SH	Cl	Br
acyl	H	SH	Cl	I
acyl	acyl	SH	Cl	H
acyl	acyl	SH	Cl	NH ₂
acyl	acyl	SH	Cl	NH-cyclopropyl
acyl	acyl	SH	Cl	NH-methyl
acyl	acyl	SH	Cl	NH-ethyl
acyl	acyl	SH	Cl	NH-acetyl
acyl	acyl	SH	Cl	OH
acyl	acyl	SH	Cl	ОМе
acyl	acyl	SH	Cl	OEt .
acyl	acyl	SH	Cl	O-cyclopropyl
acyl	acyl	SH	Cl	O-acetyl
acyl	acyl	SH	Cl	SH

R ²	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
acyl	acyl	SH	CI	SMe
acyl	acyl	SH	Cl	SEt
acyl	acyl	SH	Cl	S-cyclopropyl
acyl	acyl	SH	Cl	F
acyl	acyl	SH	Cl	Cl
acyl	acyl	SH	Cl	Br
acyl	acyl	SH	Cl	I
acyl	amino acid	SH	Cl	Н
acyl	amino acid	SH	Cl	NH ₂
acyl	amino acid	SH	Cl	NH-cyclopropyl
acyl	amino acid	SH	Cl	NH-methyl
acyl	amino acid	SH	Cl	NH-ethyl
acyl	amino acid	SH	Cl	NH-acetyl
acyl	amino acid	SH	Cl	ОН
acyl	amino acid	SH	Cl	OMe
acyl	amino acid	SH	Cl	OEt
acyl	amino acid	SH	Cl	O-cyclopropyl
acyl	amino acid	SH	Cl	O-acetyl
acyl	amino acid	SH	Cl	SH
acyl	amino acid	SH	Cl	SMe
acyl	amino acid	SH	Cl ·	SEt
acyl	amino acid	SH	Cl	S-cyclopropyl
acyl	amino acid	SH	Cl	F
acyl	amino acid	SH	Cl	Cl
acyl	amino acid	SH	Cl	Br
acyl	amino acid	SH	Cl	I
H	acyl	SH	Cl	Н
H	acyl	SH	Cl	NH ₂
H	acyl	SH	Cl	NH-cyclopropyl
H	acyl	SH	Cl	NH-methyl
H	acyl	SH	Cl	NH-ethyl
H	acyl	SH	Cl	NH-acetyl
H	acyl	SH	Cl	OH
H	acyl	SH	CI	OMe
H	acyl	SH	Cl	OEt
H	acyl	SH	Cl	O-cyclopropyl
H	acyl	SH	Cl	O-acetyl
H	acyl	SH	Cl	SH
H	acyl	SH	Cl	SMe
H	acyl	SH	Cl	SEt
H	acyl	SH	Cl	S-cyclopropyl
H	acyl	SH	Cl	F
H	acyl	SH	Cl	Cl
H	acyl	SH	Cl	Br
H	acyl	SH	Cl	I
H	amino acid	SH	Cl	Н
Н	amino acid	SH	Cl	NH ₂

R ²	R ³	X ¹	X ²	Y
H	amino acid	SH	CI	NH-cyclopropyl
H	amino acid	SH	CI	NH-methyl
H	amino acid	SH	Cl	NH-ethyl
H.	amino acid	SH	Cl	NH-acetyl
Н	amino acid	SH	Cl	OH
H	amino acid	SH	Cl	OMe
H	amino acid	SH	Cl	OEt
H	amino acid	SH	Cl	O-cyclopropyl
H	amino acid	SH	Cl	O-acetyl
Н	amino acid	SH	Cl	SH
H	amino acid	SH	Cl	SMe
H	amino acid	SH	Cl	SEt
H	amino acid	SH	Cl	S-cyclopropyl
H	amino acid	SH	Cl	F
H	amino acid	SH	Cl	Cl
H	amino acid	SH	Cl	Br
H	amino acid	SH	Cl	I
amino acid	amino acid	SH	Cl	H
amino acid	amino acid	SH	Cl	NH ₂
amino acid	amino acid	SH	Cl	NH-cyclopropyl
amino acid	amino acid	SH	Cl	NH-methyl
amino acid	amino acid	SH	Cl	NH-ethyl
amino acid	amino acid	SH	Cl	NH-acetyl
amino acid	amino acid	SH	Cl	OH OH
amino acid	amino acid	SH	Ci	OMe
amino acid	amino acid	SH	Cl	OEt
amino acid	amino acid	SH	Cl	O-cyclopropyl
amino acid	amino acid	SH	Cl	O-acetyl
amino acid	amino acid	SH	Cl	SH
amino acid	amino acid	SH	Cl	SMe
amino acid	amino acid	SH	Cl	SEt
amino acid	amino acid	SH	Cl	S-cyclopropyl
amino acid	amino acid	SH	Cl	F
amino acid	amino acid	SH	CI	CI
amino acid	amino acid	SH	CI	Br
amino acid	amino acid	SH	CI	I
amino acid	H	SH	Cl	H
amino acid	H	SH	Cl	NH ₂
amino acid	H	SH	Cl	NH-cyclopropyl
amino acid	H	SH	Cl	NH-methyl
amino acid	H	SH	Cl	
amino acid	H	SH	Cl	NH-ethyl
amino acid	H			NH-acetyl
amino acid		SH	Cl	OH
	H	SH	Cl	OMe OF
amino acid	H	SH	Cl	OEt
amino acid	H	SH	Cl	O-cyclopropyl
amino acid	H	SH	Cl	O-acetyl

\mathbb{R}^2	R ³	X¹	X ²	Y
amino acid	H	SH	Cl	SH
amino acid	H	SH	Cl	SMe
amino acid	Н	SH	Cl	SEt
amino acid	H	SH	Cl	S-cyclopropyl
amino acid	Н	SH	Cl	F
amino acid	Н	SH	Cl	Cl
amino acid	H	SH	Cl	Br
amino acid	H	SH	Cl	I
amino acid	acyl	SH	Cl	H
amino acid	acyl	SH	Cl	NH ₂
amino acid	acyl	SH	Cl	NH-cyclopropyl
amino acid	acyl	SH	Cl	NH-methyl
amino acid	acyl	SH	Cl	NH-ethyl
amino acid	acyl	SH	Cl	NH-acetyl
amino acid	acyl	SH	CI	OH
amino acid	acyl	SH	Cl	OMe
amino acid	acyl	SH	Cl	OEt
amino acid	acyl	SH	Cl	O-cyclopropyl
amino acid	acyl	SH	Cl	O-acetyl
amino acid	acyl	SH	Cl	SH
amino acid	acyl	SH	Cl	SMe
amino acid	acyl	SH	Cl	SEt
amino acid	acyl	SH	Cl	S-cyclopropyl
amino acid	acyl	SH	Ci	F
amino acid	acyl	SH	Cl	Cl
amino acid	acyl	SH	Cl	Br
amino acid	acyl	SH	Cl	Ī
acyl	H	ОН	Cl	H
acyl	H	OH	Cl	NH ₂
acyl	Н	OH	Cl	NH-cyclopropyl
acyl	H	OH	Cl	NH-methyl
acyl	Н	OH	Cl	NH-ethyl
acyl	Н	OH	Cl	NH-acetyl
acyl	H	OH	Cl	OH
acyl	Н	OH	Cl	OMe
acyl	H	OH	Cl	OEt
acyl	H	OH	Cl	O-cyclopropyl
acyl	H	OH	Ci	O-acetyl
acyl	H	OH	CI	SH
acyl	H	OH	Cl	SMe
acyl	H	OH	Ci	SEt
acyl	H	OH	Cl	S-cyclopropyl
acyl	H	OH	Cl	F
acyl	H	OH	CI	Cl
acyl	$\frac{\Pi}{\Pi}$	OH	Cl	Br
acyl	H	OH	Cl	I
acyl	acyl	OH	Cl	H
acyı	acyl	UH	101	П

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
acyl	acyl	OH	Cl	NH ₂
acyl	acyl	OH	Cl	NH-cyclopropyl
acyl	acyl	OH	Cl	NH-methyl
acyl	acyl	OH	Cl	NH-ethyl
acyl	acyl	OH	Cl	NH-acetyl
acyl	acyl	OH	Cl	OH
acyl	acyl	OH	Cl	OMe
acyl	acyl	OH	Cl	OEt
acyl	acyl	OH	Cl	O-cyclopropyl
acyl	acyl	OH	Cl	O-acetyl
acyl	acyl	OH	Cl	SH
acyl	acyl	OH	Cl	SMe
acyl	acyl	OH	Cl	SEt
acyl	acyl	OH	Cl	S-cyclopropyl
acyl	acyl	OH	Cl	F S-cyclopropyr
acyl	acyl	OH	CI	Cl
acyl	acyl	OH	Cl	Br
acyl	acyl	OH	Cl	I I
acyl	amino acid	OH	CI	H
acyl	amino acid	OH	Cl	NH ₂
acyl	amino acid	OH	Cl	NH-cyclopropyl
acyl	amino acid	OH	CI	NH-methyl
acyl	amino acid	OH	Cl	
acyl	amino acid	OH	Cl	NH-ethyl
acyl	amino acid	OH	Cl	NH-acetyl OH
acyl	amino acid	OH	Cl	
	amino acid	OH	Cl	OMe
acyl	amino acid	OH		OEt
acyl			Cl	O-cyclopropyl
acyl	amino acid	OH	Cl	O-acetyl
acyl	amino acid	OH	Cl	SH
acyl	amino acid	OH	Cl	SMe
acyl	amino acid	OH	Cl	SEt_
acyl	amino acid	OH	Cl	S-cyclopropyl
acyl	amino acid	OH	Cl	F
acyl	amino acid	OH	Cl	Cl
acyl	amino acid	OH	Cl	Br
acyl	amino acid	OH	Cl	I
H	acyl	OH	CI	H
H	acyl	OH	Cl	NH ₂
H	acyl	OH_	Cl	NH-cyclopropyl
H	acyl	OH	Cl	NH-methyl
H	acyl	OH	Cl	NH-ethyl
Η .	acyl	OH	Cl	NH-acetyl
H	acyl	OH	Cl	OH
H	acyl	ОН	Cl	OMe
Н	acyl	OH	Cl	OEt
H	acyl	OH	Cl	O-cyclopropyl

\mathbb{R}^2	R ³	XI	X ²	Y
H	acyl	OH	Cl	O-acetyl
H	acyl	OH	Cl	SH
H	acyl	ОН	Cl	SMe
H	acyl	OH	Cl	SEt
H	acyl	OH	Cl	S-cyclopropyl
H	acyl	OH	Cl	F
H	acyl	OH	Cl	Cl
H	acyl	ОН	Cl	Br
H	acyl	OH	Cl	I
H	amino acid	OH	Cl	H
H	amino acid	OH	Cl	NH ₂
H	amino acid	OH	Cl	NH-cyclopropyl
Н	amino acid	OH	Cl	NH-methyl
H	amino acid	OH	Cl	NH-ethyl
H	amino acid	OH	Cl	NH-acetyl
Н	amino acid	OH	Cl	ОН
H	amino acid	OH	Cl	OMe
H	amino acid	OH	Cl	OEt
H	amino acid	OH	Cl	O-cyclopropyl
H	amino acid	ОН	Cl	O-acetyl
Н	amino acid	OH	Cl	SH
H	amino acid	ОН	Cl	SMe
H	amino acid	OH	Cl	SEt
H	amino acid	OH	Cl	S-cyclopropyl
H	amino acid	ОН	Cl	F
H	amino acid	ОН	Cl	Cl
H	amino acid	ОН	CI	Br
H	amino acid	ОН	Cl	I
amino acid	amino acid	ОН	Cl	H
amino acid	amino acid	OH	Cl	NH ₂
amino acid	amino acid	OH	Cl	NH-cyclopropyl
amino acid	amino acid	OH	Cl	NH-methyl
amino acid	amino acid	OH	Cl	NH-ethyl
amino acid	amino acid	OH	Cl	NH-acetyl
amino acid	amino acid	OH	Cl	OH
amino acid	amino acid	OH	Cl	OMe
amino acid	amino acid	OH	Cl	OEt
amino acid	amino acid	OH	Cl	O-cyclopropyl
amino acid	amino acid	OH	CI	O-acetyl
amino acid	amino acid	OH	Cl	SH
amino acid	amino acid	OH	Cl	SMe
amino acid	amino acid	OH	Cl	SEt
amino acid	amino acid	OH	Cl	S-cyclopropyl
amino acid	amino acid	OH	CI	F
amino acid	amino acid	OH	CI	Cl
amino acid	amino acid	OH	Cl	Br
amino acid	amino acid	OH	Cl	I

amino acid	H H H H H H H H H H H H H H H H H H H	OH OH OH OH OH OH OH OH OH OH	CI CI CI CI CI CI CI CI CI	H NH ₂ NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe OEt O-cyclopropyl O-acetyl
amino acid	H H H H H H H H H H H H H	OH OH OH OH OH OH OH OH	CI CI CI CI CI CI CI	NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe OEt O-cyclopropyl O-acetyl
amino acid	H H H H H H H H H H H H H	OH OH OH OH OH OH OH	CI	NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe OEt O-cyclopropyl O-acetyl
amino acid	H H H H H H H H H H H	OH OH OH OH OH OH	CI	NH-methyl NH-ethyl NH-acetyl OH OMe OEt O-cyclopropyl O-acetyl
amino acid	H H H H H H H H H	OH OH OH OH OH OH	CI CI CI CI CI CI	NH-ethyl NH-acetyl OH OMe OEt O-cyclopropyl O-acetyl
amino acid	H H H H H H H H	OH OH OH OH OH	CI CI CI CI CI	NH-acetyl OH OMe OEt O-cyclopropyl O-acetyl
amino acid	H H H H H H H H	OH OH OH OH OH	Cl Cl Cl Cl	OH OMe OEt O-cyclopropyl O-acetyl
amino acid	H H H H H H	OH OH OH	Cl Cl Cl	OMe OEt O-cyclopropyl O-acetyl
amino acid	H H H H H	OH OH OH	Cl Cl	OEt O-cyclopropyl O-acetyl
amino acid amino acid amino acid amino acid amino acid	H H H H	OH OH	Cl	O-cyclopropyl O-acetyl
amino acid amino acid amino acid amino acid	H H H H	OH OH	Cl	O-acetyl
amino acid amino acid amino acid	H H H	ОН		
amino acid	H H			SH
amino acid	H		Cl	SMe
		ОН	Cl	SEt
amino acid	H	OH	Cl	S-cyclopropyl
	H	OH	Cl	F
	H	OH	Cl	Cl
	H	OH	Cl	Br
	H	OH	Cl	Ī
	acyl	OH	Cl	H
	acyl	OH	Cl	NH ₂
	acyl	OH	Cl	NH-cyclopropyl
	acyl	OH	Cl	NH-methyl
	acyl	OH	Cl	NH-ethyl
	acyl	ОН	Cl	NH-acetyl
	acyl	OH	Cl	ОН
	acyl	ОН	Cl	OMe
	acyl	ОН	Cl	OEt
	acyl	ОН	Cl	O-cyclopropyl
	acyl	OH	Cl	O-acetyl
	acyl	ОН	Cl	SH
	acyl	ОН	Cl	SMe
	acyl	OH	Cl	SEt
	acyl	ОН	Cl	S-cyclopropyl
	acyl	ОН	Cl	F
	acyl	ОН	Cl	Cl
· · · · · · · · · · · · · · · · · · ·	acyl	ОН	Cl	Br
	acyl	ОН	Cl	I
	H	CH ₃	F	Н
	H	CH ₃	F	NH ₂
	Н	CH ₃	F	NH-cyclopropyl
	H	CH ₃	F	NH-methyl
	H	CH ₃	F	NH-ethyl
	H	CH ₃	F	NH-acetyl
	H	CH ₃	F	ОН
	H	CH ₃	F	OMe
	H	CH ₃	F	OEt

\mathbb{R}^2	R ³	X^1	X^2	Y
acyl	H	CH ₃	F	O-cyclopropyl
acyl	H	CH ₃	F	O-acetyl
acyl	H	CH ₃	F	SH
acyl	H	CH ₃	F	SMe
acyl	H	CH ₃	F	SEt
acyl	H	CH ₃	F	S-cyclopropyl
acyl	H	CH ₃	F	F
acyl	Н	CH ₃	F	Cl
acyl	Н	CH ₃	F	Br
acyl	Н	CH ₃	F	I
acyl	acyl	CH ₃	F	H
acyl	acyl	CH ₃	F	NH ₂
acyl	acyl	CH ₃	F	NH-cyclopropyl
acyl	acyl	CH ₃	F	NH-methyl
acyl	acyl	CH ₃	F	NH-ethyl
acyl	acyl	CH ₃	F	NH-acetyl
acyl	acyl	CH ₃	F	OH
acyl	acyl	CH ₃	F	OMe
acyl	acyl	CH ₃	F	OEt
acyl	acyl	CH ₃	F	O-cyclopropyl
acyl	acyl	CH ₃	F	O-acetyl
acyl	acyl	CH ₃	F	SH
acyl	acyl	CH ₃	F	SMe
acyl	acyl	CH ₃	F	SEt
acyl	acyl	CH ₃	F	S-cyclopropyl
acyl	acyl	CH ₃	F	F
acyl	acyl	CH ₃	F	Cl
acyl	acyl	CH ₃	F	Br
acyl	acyl	CH ₃	F	I
acyl	amino acid	CH ₃	F	H
acyl	amino acid	CH ₃	F	NH ₂
acyl	amino acid	CH ₃	F	NH-cyclopropyl
acyl	amino acid	CH ₃	F	NH-methyl
acyl	amino acid	CH ₃	F	NH-ethyl
acyl	amino acid	CH ₃	F	NH-acetyl
acyl	amino acid	CH ₃	F	OH
acyl	amino acid	CH ₃	F	OMe
acyl	amino acid	CH ₃	F	OEt
acyl	amino acid	CH ₃	F	O-cyclopropyl
acyl	amino acid	CH ₃	F	O-acetyl
acyl	amino acid	CH ₃	F	SH
acyl	amino acid	CH ₃	F	SMe
acyl	amino acid	CH ₃	F	SEt
acyl	amino acid	CH ₃	F	S-cyclopropyl
acyl	amino acid	CH ₃	F	F
acyl	amino acid	CH ₃	F	Cl
acyl	amino acid	CH ₃	$\frac{1}{F}$	Br
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\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	amino acid	CH ₃	F	I
Н	acyl	CH ₃	F	Н
Н	acyl	CH ₃	F	NH ₂
Н	acyl	CH ₃	F	NH-cyclopropyl
H	acyl	CH ₃	F	NH-methyl
Н	acyl	CH ₃	F	NH-ethyl
Н	acyl	CH ₃	F	NH-acetyl
H	acyl	CH ₃	F	ОН
Н	acyl	CH ₃	F	OMe
H	acyl	CH ₃	F	OEt
Н	acyl	CH ₃	F	O-cyclopropyl
Н	acyl	CH ₃	F	O-acetyl
Н	acyl	CH ₃	F	SH
Н	acyl	CH ₃	F	SMe
H	acyl	CH ₃	F	SEt
Н	acyl	CH ₃	F	S-cyclopropyl
H	acyl	CH ₃	F	F
Н	acyl	CH ₃	F_	Cl
H	acyl	CH ₃	F	Br
H	acyl	CH ₃	F	I
H	amino acid	CH ₃	F	H
H	amino acid	CH ₃	F	NH ₂
H	amino acid	CH ₃	F	NH-cyclopropyl
H	amino acid	CH ₃	F	NH-methyl
H	amino acid	CH ₃	F	NH-ethyl
H	amino acid	CH ₃	F	NH-acetyl
H	amino acid	CH ₃	F	OH
Н	amino acid	CH ₃	F	OMe
H	amino acid	CH ₃	F	OEt
H	amino acid	CH ₃	F	O-cyclopropyl
H	amino acid	CH ₃	F	O-acetyl
H	amino acid	CH ₃	F	SH
Н	amino acid	CH ₃	F	SMe
H	amino acid	CH ₃	F	SEt
H	amino acid	CH ₃	F	S-cyclopropyl
H	amino acid	CH ₃	F	F
H	amino acid	CH ₃	F	Cl
H	amino acid	CH ₃	F	Br
H	amino acid	CH ₃	F	I
amino acid	amino acid	CH ₃	<u>F</u>	H
amino acid	amino acid	CH ₃	$\frac{\int \mathbf{F}}{\mathbf{r}}$	NH ₂
amino acid	amino acid	CH ₃	F	NH-cyclopropyl
amino acid	amino acid	CH ₃	F	NH-methyl
amino acid	amino acid	CH ₃	F	NH-ethyl
amino acid	amino acid	CH ₃	F	NH-acetyl
amino acid	amino acid	CH ₃	F	OH
amino acid	amino acid	CH ₃	<u> </u>	OMe

R ²	\mathbb{R}^3	X ¹	X ²	Y
amino acid	amino acid	CH ₃	F	OEt
amino acid	amino acid	CH ₃	F	O-cyclopropyl
amino acid	amino acid	CH ₃	F	O-acetyl
amino acid	amino acid	CH ₃	F	SH
amino acid	amino acid	CH ₃	F	SMe
amino acid	amino acid	CH ₃	F	SEt
amino acid	amino acid	CH ₃	F	S-cyclopropyl
amino acid	amino acid	CH ₃	F	F
amino acid	amino acid	CH ₃	F	Cl
amino acid	amino acid	CH ₃	F	Br
amino acid	amino acid	CH ₃	F	I
amino acid	H	CH ₃	F	Н
amino acid	H	CH ₃	F	NH ₂
amino acid	Н	CH ₃	F	NH-cyclopropyl
amino acid	H	CH ₃	F	NH-methyl
amino acid	Н	CH ₃	F	NH-ethyl
amino acid	H	CH ₃	F	NH-acetyl
amino acid	Н	CH ₃	F	OH
amino acid	H	CH ₃	F	OMe
amino acid	H	CH ₃	F	OEt
amino acid	H	CH ₃	F-	O-cyclopropyl
amino acid	H	CH ₃	F	O-acetyl
amino acid	Н	CH ₃	F	SH
amino acid	H	CH ₃	F	SMe
amino acid	H	CH ₃	F	SEt
amino acid	H	CH ₃	F	S-cyclopropyl
amino acid	Н	CH ₃	F	F
amino acid	H	CH ₃	F	Cl
amino acid	H	CH ₃	F	Br
amino acid	H	CH ₃	F	I
amino acid	acyl	CH ₃	F	Н
amino acid	acyl	CH ₃	F	NH ₂
amino acid	acyl	CH ₃	F	NH-cyclopropyl
amino acid	acyl	CH ₃	F	NH-methyl
amino acid	acyl	CH ₃	F	NH-ethyl
amino acid	acyl	CH ₃	F	NH-acetyl
amino acid	acyl	CH ₃	F	OH
amino acid	acyl	CH ₃	F	OMe
amino acid	acyl	CH ₃	F	OEt
amino acid	acyl	CH ₃	F	O-cyclopropyl
amino acid	acyl	CH ₃	F	O-acetyl
amino acid	acyl	CH ₃	F	SH
amino acid	acyl	CH ₃	F	SMe
amino acid	acyl	CH ₃	F	SEt
amino acid	acyl	CH ₃	F	S-cyclopropyl
amino acid	acyl	CH ₃	F	F
amino acid	acyl	CH ₃	F	Cl

\mathbb{R}^2	R ³	X	X ²	Y
amino acid	acyl	CH ₃	F	Br
amino acid	acyl	CH ₃	F	I
acyl	H	CF ₃	F	H
acyl	Н	CF ₃	F	NH ₂
acyl	H	CF ₃	F	NH-cyclopropyl
acyl	H	CF ₃	F	NH-methyl
acyl	H	CF ₃	F	NH-ethyl
acyl	Н	CF ₃	F_	NH-acetyl
acyl	H	CF ₃	F	ОН
acyl	Н	CF ₃	F	OMe
acyl	Н	CF ₃	F	OEt
acyl	H	CF ₃	F	O-cyclopropyl
acyl	H	CF ₃	F	O-acetyl
acyl	H	CF ₃	F	SH
acyl	H	CF ₃	F	SMe
acyl	H	CF ₃	F	SEt
acyl	Н	CF ₃	F	S-cyclopropyl
acyl	H	CF ₃	F	F
acyl	H	CF ₃	F	Cl
acyl	H	CF ₃	F	Br
acyl	Н	CF ₃	F	I
acyl	acyl	CF ₃	F	Н
acyl	acyl	CF ₃	F	NH ₂
acyl	acyl	CF ₃	F	NH-cyclopropyl
acyl	acyl	CF ₃	F	NH-methyl
acyl	acyl	CF ₃	F	NH-ethyl
acyl	acyl	CF ₃	F	NH-acetyl
acyl	acyl	CF ₃	F_	OH
acyl	acyl	CF ₃	F	OMe
acyl	acyl	CF ₃	F	OEt
acyl	acyl	CF ₃	F	O-cyclopropyl
acyl	acyl	CF ₃	F	O-acetyl
acyl	acyl	CF ₃	F	SH
acyl	acyl	CF ₃	F	SMe
acyl	acyl	CF ₃	F	SEt
acyl	acyl	CF ₃	F	S-cyclopropyl
acyl	acyl	CF ₃	F	F
acyl	acyl	CF ₃	F	Cl
acyl	acyl	CF ₃	F	Br
acyl	acyl	CF ₃	F	I
acyl	amino acid	CF ₃	F	H
acyl	amino acid	CF ₃	F	NH ₂
acyl	amino acid	CF ₃	F	NH-cyclopropyl
acyl	amino acid	CF ₃	F	NH-methyl
acyl	amino acid	CF ₃	F	NH-ethyl
acyl	amino acid	CF ₃	F	NH-acetyl
acyl	amino acid	CF ₃	F	ОН

\mathbb{R}^2	R ³	X	X ²	Y
acyl	amino acid	CF ₃	F	OMe
acyl	amino acid	CF ₃	F	OEt
acyl	amino acid	CF ₃	F	O-cyclopropyl
acyl	amino acid	CF ₃	F	O-acetyl
acyl	amino acid	CF ₃	F	SH
acyl	amino acid	CF ₃	F	SMe
acyl	amino acid	CF ₃	F	SEt
acyl	amino acid	CF ₃	F	S-cyclopropyl
acyl	amino acid	CF ₃	F	F
acyl	amino acid	CF ₃	F	Cl
acyl	amino acid	CF ₃	F	Br
acyl	amino acid	CF ₃	F	I
H	acyl	CF ₃	F	H
H	acyl	CF ₃	F	NH ₂
H	acyl	CF ₃	F	NH-cyclopropyl
H	acyl	CF ₃	F	NH-methyl
H	acyl	CF ₃	F	NH-ethyl
H	acyl	CF ₃	F	NH-acetyl
H	acyl	CF ₃	F	OH OH
H	acyl	CF ₃	F	OMe
H	acyl	CF ₃	F	OEt
H	acyl	CF ₃	F	O-cyclopropyl
H	acyl	CF ₃	F	O-acetyl
H	acyl	CF ₃	F	SH
H	acyl	CF ₃	F	SMe
H	acyl	CF ₃	F	SEt
H	acyl	CF ₃	F	S-cyclopropyl
H	acyl	CF ₃	$\frac{1}{F}$	F
H	acyl	CF ₃	F	Cl
H	acyl	CF ₃	$\frac{1}{F}$	Br
H	acyl	CF ₃	F	I
H	amino acid	CF ₃	F	- H
H	amino acid	CF ₃	F	NH ₂
H	amino acid	CF ₃	F	NH-cyclopropyl
H	amino acid	CF ₃	F	NH-methyl
H	amino acid	CF ₃	F	NH-ethyl
H	amino acid	CF ₃	F	NH-acetyl
H	amino acid	CF ₃	F	OH
H	amino acid	CF ₃	F	OMe
H	amino acid	CF ₃	$\frac{\mathbf{F}}{\mathbf{F}}$	Oble
H	amino acid	CF ₃	F	O-cyclopropyl
H	amino acid	CF ₃	F	
H			F	O-acetyl
H	amino acid	CF ₃		SH
	amino acid	CF ₃	F	SMe
H	amino acid	CF ₃	F	SEt
H	amino acid	CF ₃	F	S-cyclopropyl
Н	amino acid	CF ₃	<u> </u>	F

R ²	R ³	X ¹	X ²	Y
H	amino acid	CF ₃	F	Cl
Н	amino acid	CF ₃	F	Br
Н	amino acid	CF ₃	F	I
amino acid	amino acid	CF ₃	F	Н
amino acid	amino acid	CF ₃	F	NH ₂
amino acid	amino acid	CF ₃	F	NH-cyclopropyl
amino acid	amino acid	CF ₃	F	NH-methyl
amino acid	amino acid	CF ₃	F	NH-ethyl
amino acid	amino acid	CF ₃	F	NH-acetyl
amino acid	amino acid	CF ₃	F	ОН
amino acid	amino acid	CF ₃	F	OMe
amino acid	amino acid	CF ₃	F	OEt
amino acid	amino acid	CF ₃	F	O-cyclopropyl
amino acid	amino acid	CF ₃	F	O-acetyl
amino acid	amino acid	CF ₃	F	SH
amino acid	amino acid	CF ₃	F	SMe
amino acid	amino acid	CF ₃	F	SEt
amino acid	amino acid	CF ₃	F	S-cyclopropyl
amino acid	amino acid	CF ₃	F	F
amino acid	amino acid	CF ₃	F	Cl
amino acid	amino acid	CF ₃	F	Br
amino acid	amino acid	CF ₃	F	I
amino acid	H	CF ₃	F	Н
amino acid	H	CF ₃	F	NH ₂
amino acid	Н	CF ₃	F	NH-cyclopropyl
amino acid	Н	CF ₃	F	NH-methyl
amino acid	H	CF ₃	F	NH-ethyl
amino acid	Н	CF ₃	F	NH-acetyl
amino acid	H	CF ₃	F	OH
amino acid	Н	CF ₃	F	OMe
amino acid	H	CF ₃	F	OEt
amino acid	Н	CF ₃	F	O-cyclopropyl
amino acid	Н	CF ₃	F	O-acetyl
amino acid	H	CF ₃	F	SH
amino acid	H	CF ₃	F	SMe
amino acid	Н	CF ₃	F	SEt
amino acid	H	CF ₃	F	S-cyclopropyl
amino acid	Н	CF ₃	F	F
amino acid	Н	CF ₃	F	Cl -
amino acid	H	CF ₃	F	Br
amino acid	Н	CF ₃	F	I
amino acid	acyl	CF ₃	F	Н
amino acid	acyl	CF ₃	F	NH ₂
amino acid	acyl	CF ₃	F	NH-cyclopropyl
amino acid	acyl	CF ₃	F	NH-methyl
amino acid	acyl	CF ₃	F	NH-ethyl
amino acid	acyl	CF ₃	F	NH-acetyl
amino acid	acyl	CF ₃	<u> F</u>	NH-acetyl

			\mathbf{X}^2	Y
1	acyl	CF ₃	F	ОН
amino acid	acyl	CF ₃	F	OMe
amino acid	acyl	CF ₃	F	OEt
amino acid	acyl	CF ₃	F	O-cyclopropyl
amino acid	acyl	CF ₃	F	O-acetyl
	acyl	CF ₃	F	SH
amino acid	acyl	CF ₃	F	SMe
amino acid	acyl	CF ₃	F	SEt
	acyl	CF ₃	F	S-cyclopropyl
amino acid	acyl	CF ₃	F	F
	acyl	CF ₃	F	Cl
amino acid	acyl	CF ₃	F	Br
amino acid	acyl	CF ₃	F	I
acyl	H	Br	F	Н
	H	Br	F	NH ₂
	H	Br	F	NH-cyclopropyl
	H	Br	F	NH-methyl
acyl	H	Br	F	NH-ethyl
acyl	H	Br	F	NH-acetyl
acyl	H	Br	F	OH
acyl	Н	Br	F	OMe
acyl	H	Br	F	OEt
acyl	H	Br	F	O-cyclopropyl
acyl	Н	Br	F	O-acetyl
acyl	Н	Br	F	SH
acyl	Н	Br	F	SMe
acyl	H	Br	F	SEt
acyl	Н	Br	F	S-cyclopropyl
	Н	Br	F	F
	H	Br	F	Cl
acyl	H	Br	F	Br
	H	Br	F	I
acyl	acyl	Br	F	Н
	acyl	Br	F	NH ₂
	acyl	Br	F	NH-cyclopropyl
	acyl	Br	F	NH-methyl
	acyl	Br	F	NH-ethyl
acyl	acyl	Br	F	NH-acetyl
	acyl	Br	F	OH
	acyl	Br	F	OMe
acyl	acyl	Br	F	OEt
acyl	acyl	Br	F	O-cyclopropyl
acyl	acyl	Br	F	O-acetyl
acyl	acyl	Br	F	SH
	acyl	Br	F	SMe
	acyl	Br	F	SEt
	acyl	Br	F	S-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	X^{1}	X ²	Y
acyl	acyl	Br	F	F
acyl	acyl	Br	F	Cl
acyl	acyl	Br	F	Br
acyl	acyl	Br	F	I
acyl	amino acid	Br	F	H
acyl	amino acid	Br	F	NH ₂
acyl	amino acid	Br	F	NH-cyclopropyl
acyl	amino acid	Br	F	NH-methyl
acyl	amino acid	Br	F	NH-ethyl
acyl	amino acid	Br	F	NH-acetyl
acyl	amino acid	Br	F	OH
acyl	amino acid	Br	F	OMe
acyl	amino acid	Br	F	OEt
acyl	amino acid	Br	F	O-cyclopropyl
acyl	amino acid	Br	F	O-acetyl
acyl	amino acid	Br	F	SH
acyl	amino acid	Br	F	SMe
acyl	amino acid	Br	F	SEt
acyl	amino acid	Br	F	S-cyclopropyl
acyl	amino acid	Br	F	F
acyl	amino acid	Br	F	Cl
acyl	amino acid	Br	$-\frac{1}{F}$	Br
acyl	amino acid	Br	F	I
H	acyl	Br	F	H
H	acyl	Br	F	NH ₂
Н	acyl	Br	F	NH-cyclopropyl
Н	acyl	Br	\overline{F}	NH-methyl
H	acyl	Br	F	NH-ethyl
H	acyl	Br	F	NH-acetyl
Н	acyl	Br	F	ОН
H	acyl	Br	F .	OMe
H	acyl	Br	F	OEt
H	acyl	Br	F	O-cyclopropyl
H	acyl	Br	F	O-acetyl
H	acyl	Br	F	SH
Н	acyl	Br	F	SMe
Н	acyl	Br	F	SEt
H	acyl	Br	F	S-cyclopropyl
H	acyl	Br	F	F
H	acyl	Br	F	Cl
H	acyl	Br	F	Br
Н	acyl	Br	F	I
Н	amino acid	Br	F	H
H	amino acid	Br	F	NH ₂
H	amino acid	Br	F	NH-cyclopropyl
H	amino acid	Br	F	NH-methyl
H	amino acid	Br	F	NH-ethyl
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\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
H	amino acid	Br	F	NH-acetyl
H	amino acid	Br	F	OH
H	amino acid	Br	F	OMe
Н	amino acid	Br	F	OEt
H	amino acid	Br	F	O-cyclopropyl
Н	amino acid	Br	F	O-acetyl
Н	amino acid	Br	F	SH
H	amino acid	Br	F	SMe
H	amino acid	Br	F	SEt
Н	amino acid	Br	F	S-cyclopropyl
Н	amino acid	Br	F	F
Н	amino acid	Br	F	Cl
Н	amino acid	Br /	F	Br
H	amino acid	Br	F	I
amino acid	amino acid	Br	F	H
amino acid	amino acid	Br	F	NH ₂
amino acid	amino acid	Br	F	NH-cyclopropyl
amino acid	amino acid	Br	F	NH-methyl
amino acid	amino acid	Br	F	NH-ethyl
amino acid	amino acid	Br	F	NH-acetyl
amino acid	amino acid	Br	F	OH
amino acid	amino acid	Br	F	OMe
amino acid	amino acid	Br	F	OEt
amino acid	amino acid	Br	F	O-cyclopropyl
amino acid	amino acid	Br	F	O-acetyl
amino acid	amino acid	Br	F	SH
amino acid	amino acid	Br	F	SMe
amino acid	amino acid	Br	F	SEt
amino acid	amino acid	Br	F	S-cyclopropyl
amino acid	amino acid	Br	F	F
amino acid	amino acid	Br	F	Cl
amino acid	amino acid	Br	F	Br
amino acid	amino acid	Br	F	I
amino acid	H	Br	F	H
amino acid	H	Br	F	NH ₂
amino acid	Н	Br	F	NH-cyclopropyl
amino acid	H	Br	F	NH-methyl
amino acid	H	Br	F	NH-ethyl
amino acid	H	Br	F	NH-acetyl
amino acid	H	Br	F	OH
amino acid	H	Br	F	OMe
amino acid	H	Br	F	OEt
amino acid	H	Br	F	O-cyclopropyl
amino acid	H	Br	$\frac{1}{F}$	O-acetyl
amino acid	H	Br	F	SH
amino acid	H	Br	$\frac{1}{F}$	SMe
amino acid	H	Br	$\frac{1}{F}$	SEt
Lamino acid	II	DI	Г	1 31:1

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	Н	Br	F	S-cyclopropyl
amino acid	Н	Br	F	F
amino acid	H	Br	F	Ci
amino acid	Н	Br	F	Br
amino acid	Н	Br	F	Ï
amino acid	acyl	Br	F	Н
amino acid	acyl	Br	F	NH ₂
amino acid	acyl	Br	F	NH-cyclopropyl
amino acid	acyl	Br	F	NH-methyl
amino acid	acyl	Br	F	NH-ethyl
amino acid	acyl	Br	F	NH-acetyl
amino acid	acyl	Br	F	ОН
amino acid	acyl	Br	F	OMe
amino acid	acyl	Br	F	OEt
amino acid	acyl	Br	F	O-cyclopropyl
amino acid	acyl	Br	F	O-acetyl
amino acid	acyl	Br	F	SH
amino acid	acyl	Br	F	SMe
amino acid	acyl	Br	F	SEt
amino acid	acyl	Br	F	S-cyclopropyl
amino acid	acyl	Br	F	F
amino acid	acyl	Br	F	Cl
amino acid	acyl	Br	F	Br
amino acid	acyl	Br	F	I
acyl	H	Cl	F	H
acyl	H	Cl	F	NH ₂
acyl	H	CI .	F	NH-cyclopropyl
acyl	Н	Cl	F	NH-methyl
acyl	H	CI	F	NH-ethyl
acyl	H	Cl	F	NH-acetyl
acyl	Н	Cl	F	OH
acyl	H	Cl	F	OMe
acyl	Н	Cl	F	OEt
acyl	Н	Cl	F	O-cyclopropyl
acyl	Н	CI	F	O-acetyl
acyl	Н	Cl	F	SH
acyl	H	Cl	F	SMe
acyl	Н	Cl	F	SEt
acyl	Н	CI	F	S-cyclopropyl
acyl	Н	Cl	F	F
acyl	H	Cl	F	Cl
acyl	Н	Cl	F	Br
acyl	H	Cl	F	I
acyl	acyl	CI	F	Н
acyl	acyl	Cl	F	NH ₂
acyl	acyl	Cl	F	NH-cyclopropyl
acyl	acyl	Cl	F	NH-methyl
1051	Lacki	LCI	11	TATT-IIICHIAI

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
acyl	acyl	Cl	F	NH-ethyl
acyl	acyl	Cl	F	NH-acetyl
acyl	acyl	Cl	F	OH
acyl	acyl	Cl	F	OMe
acyl	acyl	Cl	F	OEt
acyl	acyl	Cl	F	O-cyclopropyl
acyl	acyl	Cl	F	O-acetyl
acyl	acyl	Cl	F	SH
acyl	acyl	Cl	F	SMe
acyl	acyl	C1	F	SEt
acyl	acyl	Cl	F	S-cyclopropyl
acyl	acyl	Cl	F	F
acyl	acyl	Cl	F	Cl
acyl	acyl	Cl	F	Br
acyl	acyl	Cl	F	Ī
acyl	amino acid	Cl	F	H
acyl	amino acid	Cl	F	NH ₂
acyl	amino acid	Cl	F	NH-cyclopropyl
acyl	amino acid	Cl	F	NH-methyl
acyl	amino acid	Cl	F	NH-ethyl
acyl	amino acid	Cl	F	NH-acetyl
acyl	amino acid	Cl	F	OH
acyl	amino acid	Cl	F	OMe
acyl	amino acid	Cl	F	OEt
acyl	amino acid	Cl	F	O-cyclopropyl
acyl	amino acid	Cl	F	O-acetyl
acyl	amino acid	Cl	F	SH
acyl	amino acid	Cl	F	SMe
acyl	amino acid	Cl	F	SEt
acyl	amino acid	Cl	F	S-cyclopropyl
acyl	amino acid	Cl	F	F
acyl	amino acid	Cl	F	Cl
acyl	amino acid	Cl	F	Br
acyl	amino acid	Cl	F	I
Н	acyl	Cl	F	H
Н	acyl	Cl	F	NH ₂
Н	acyl	Cl	F	NH-cyclopropyl
H	acyl	Cl	F	NH-methyl
Н	acyl	Cl	F	NH-ethyl
Н	acyl	Cl	F	NH-acetyl
H	acyl	Cl	F	OH
Н	acyl	Cl	F	OMe
Н	acyl	Cl	F	OEt
H	acyl	CI	F	O-cyclopropyl
H	acyl	Cl	F	O-acetyl
H	acyl	Cl	F	SH
H	acyl	Cl	F	SMe
	acyt	CI	<u> </u>	SIVIC

H a a A H a a A A A A	R ³ acyl acyl acyl acyl acyl acyl acyl acyl	X¹ Cl	F F F F F F F	SEt S-cyclopropyl F Cl Br I
H a A H a A H A A H A A H A A H A A H A A H A A H A A H A A H A A H A A H A A H A A H A A H A A H A A H A A A H A A A H A A A H A A A A H A	acyl acyl acyl acyl acyl acyl amino acid amino acid amino acid	Cl Cl Cl Cl Cl	F F F F	F Cl Br
H a H a H a H a H a H a H a H a H a H a	acyl acyl acyl acyl amino acid amino acid amino acid amino acid	Cl Cl Cl Cl Cl	F F F F	F Cl Br
H a H a H a H a H a H a H a H a H a H a	acyl acyl acyl amino acid amino acid amino acid amino acid	Cl Cl Cl Cl	F F F	Br I
H a H a H a H a H a H a H a H a H a H a	acyl acyl amino acid amino acid amino acid amino acid amino acid	Cl Cl Cl	F F	Br I
H a H a H a H a H a H a H a H a H a H a	acyl amino acid amino acid amino acid amino acid amino acid	Cl Cl	F	I
H a H a H a H a H a H a H a H a H a H a	amino acid amino acid amino acid amino acid	Cl Cl	F	
H a H a H a H a H a H a H a H a	amino acid amino acid amino acid	Cl		
H a H a H a H a H a H a	amino acid amino acid		ır l	NH ₂
H a H a H a H a	amino acid		F	NH-cyclopropyl
H a H a H a		Cl	F	NH-methyl
H a		Cl	F	NH-ethyl
H a	amino acid	Cl	F	NH-acetyl
	amino acid	Cl	F	OH
	amino acid	Cl	F	OMe
	amino acid	Cl	F	OEt
	amino acid	Cl	F	O-cyclopropyl
	amino acid	Cl	F	O-acetyl
	amino acid	Cl	F	SH
	amino acid	Cl	F	SMe
_ · 	amino acid	Cl	F	SEt
	amino acid	Cl	F	S-cyclopropyl
	amino acid	Cl	F	F
	amino acid	Cl	F	Cl
	amino acid	Cl	F	Br
	amino acid	Ci	F	I
amino acid	amino acid	Cl	F	Н
amino acid a	amino acid	Cl	F	NH ₂
	amino acid	Cl	F	NH-cyclopropyl
amino acid a	amino acid	Cl	F	NH-methyl
amino acid a	amino acid	Cl	F	NH-ethyl
amino acid	amino acid	Cl	F	NH-acetyl
amino acid a	amino acid	Cl	F	OH
amino acid a	amino acid	Cl	F	OMe
amino acid a	amino acid	Cl	F	OEt
amino acid	amino acid	Cl	F	O-cyclopropyl
amino acid	amino acid	Cl	F	O-acetyl
amino acid	amino acid	Cl	F	SH
amino acid	amino acid	Cl	F	SMe
amino acid	amino acid	Cl	F	SEt
amino acid	amino acid	Cl	F	S-cyclopropyl
amino acid	amino acid	Cl	F	F
	amino acid	Cl	F	Cl
	amino acid	Cl	F	Br
	amino acid	Cl	F	I
	Н	Cl	F	Н
	H	Cl	F	NH ₂
	H	Cl	F	NH-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	Н	Cl	F	NH-methyl
amino acid	Н	Cl	F	NH-ethyl
amino acid	Н	Cl	F	NH-acetyl
amino acid	Н	CI	F	OH
amino acid	H	Cl	F	OMe
amino acid	H	Ci	F	OEt
amino acid	H	Cl	F	O-cyclopropyl
amino acid	H	Cl	F	O-acetyl
amino acid	H	Cl	F	SH
amino acid	H	Cl	F	SMe
amino acid	H	Cl	F	SEt
amino acid	H	Cl	F	S-cyclopropyl
amino acid	H	Cl	F	F
amino acid	H	CI	F	Cl
amino acid	H	Cl	F	Br
amino acid	H	Cl	F	I
amino acid		Cl	$-\frac{\mathbf{F}}{\mathbf{F}}$	H
amino acid	acyl	Cl	$\frac{\mathbf{r}}{\mathbf{F}}$	
<u> </u>	acyl			NH ₂
amino acid	acyl	Cl	F	NH-cyclopropyl
amino acid	acyl	Cl	F	NH-methyl
amino acid	acyl	Cl	F	NH-ethyl
amino acid	acyl	Cl	F	NH-acetyl
amino acid	acyl	Cl	F	OH
amino acid	acyl	Cl	F	OMe
amino acid	acyl	Cl	F	OEt
amino acid	acyl	Cl	F	O-cyclopropyl
amino acid	acyl	Cl	F	O-acetyl
amino acid	acyl	C1	F	SH
amino acid	acyl	Cl	F	SMe
amino acid	acyl	Cl	F	SEt
amino acid	acyl	Cl	F	S-cyclopropyl
amino acid	acyl	Cl	F	F
amino acid	acyl	Cl	F	Cl
amino acid	acyl	C1	F	Br
amino acid	acyl	Cl	F	<u> </u>
acyl	H	F	F	H
acyl	H	F	F	NH ₂
acyl	H	F	F	NH-cyclopropyl
acyl	H	F	F	NH-methyl
acyl	H	F	F	NH-ethyl
acyl	Н	F	F	NH-acetyl
acyl	H	F	F	OH
acyl	H	F	F	OMe
acyl	H	F	F	OEt
acyl	H	F	F	O-cyclopropyl
acyl	H	F	F	O-acetyl
acyl	H	. F	$\frac{1}{F}$	SH
4071	11	, <u>, , , , , , , , , , , , , , , , , , </u>		D11

\mathbb{R}^2	\mathbb{R}^3	XI	X ²	Y
acyl	H	F	F	SMe
acyl	H	F	F	SEt
acyl	H	F	F	S-cyclopropyl
acyl	H	F	F	F
acyl	Н	F	F	Cl
acyl	Н	F	F	Br
acyl	H	F	\overline{F}	I
acyl	acyl	F	F	H
acyl	acyl	F	F	NH ₂
acyl	acyl	F	F	NH-cyclopropyl
acyl	acyl	F	F	NH-methyl
acyl	acyl	F	F	NH-ethyl
acyl	acyl	F	F	NH-acetyl
acyl	acyl	F	F	OH
acyl	acyl	F	F	OMe
acyl	acyl	F	F	OEt
acyl	acyl	F	F	O-cyclopropyl
acyl	acyl	F	F	O-acetyl
acyl	acyl	F	F	SH
acyl	acyl	F	F	SMe
acyl	acyl	F	$\frac{1}{F}$	SEt
acyl	acyl	F	F	S-cyclopropyl
acyl	acyl	F	F	F
acyl	acyl	F	F	Cl
acyl	acyl	F	F	Br
acyl	acyl	F	F	I
acyl	amino acid	F	F	Н
acyl	amino acid	F	F	NH ₂
acyl	amino acid	F	F	NH-cyclopropyl
acyl	amino acid	$\frac{1}{F}$	F	NH-methyl
acyl	amino acid	F	F	NH-ethyl
acyl	amino acid	F	F	NH-acetyl
acyl	amino acid	F	F	ОН
acyl	amino acid	F	F	OMe
acyl	amino acid	F	F	OEt
acyl	amino acid	F	F	O-cyclopropyl
acyl	amino acid	F	F	O-acetyl
acyl	amino acid	F	F	SH
acyl	amino acid	F	F	SMe
acyl	amino acid	F	F	SEt
acyl	amino acid	F	F	S-cyclopropyl
acyl	amino acid	F	F	Б-сусторгоруг F
	amino acid	F	F	Cl
acyl acyl	amino acid	F	F	Br
		F	F	I
acyl	amino acid	F		
H	acyl		F	Н
Н	acyl	F	F	NH ₂

R ³	\mathbf{X}^{1}	X ²	\mathbf{Y}
acyl	F	F	NH-cyclopropyl
			NH-methyl
			NH-ethyl
			NH-acetyl
			OH
			OMe
			OEt
			O-cyclopropyl
			O-acetyl
			SH
+			SMe
			SEt
			S-cyclopropyl
			F S-cyclopropyr
			Cl
			Br
			I
			H
			
			NH ₂
			NH-cyclopropyl
			NH-methyl
			NH-ethyl
			NH-acetyl
			OH
			OMe
			OEt
			O-cyclopropyl
			O-acetyl
			SH
			SMe
			SEt
			S-cyclopropyl
			F
			Cl
			Br
			<u> </u>
amino acid		F	H
amino acid		F	NH ₂
amino acid	F	F	NH-cyclopropyl
amino acid	F	F	NH-methyl
amino acid	F	F	NH-ethyl
amino acid	F	F	NH-acetyl
amino acid	F	F	OH
amino acid	F	F	OMe
	F	F	OEt
amino acid	F	F	O-cyclopropyl
	acyl acyl acyl acyl acyl acyl acyl acyl	acyl F amino acid F	acyl F F F F acyl F F F F F F F F F F F F F F F F F F F

R ²	\mathbb{R}^3	X ¹	X ²	Y
amino acid	amino acid	F	F	SH
amino acid	amino acid	F	F	SMe
amino acid	amino acid	F	F	SEt
amino acid	amino acid	F	F	S-cyclopropyl
amino acid	amino acid	F	F	F
amino acid	amino acid	F	F	Cl
amino acid	amino acid	F	F	Br
amino acid	amino acid	F	F	I
amino acid	Н	F	F	H
amino acid	Н	F	F	NH ₂
amino acid	H	F	F	NH-cyclopropyl
amino acid	Н	F	F	NH-methyl
amino acid	Н	F	F	NH-ethyl
amino acid	Н	F	F	NH-acetyl
amino acid	H	F	F	OH
amino acid	Н	F	F	OMe
amino acid	Н	F	F	OEt
amino acid	H	F	F	O-cyclopropyl
amino acid	Н	F	F	O-acetyl
amino acid	H	F	F	SH
amino acid	Н	F	F	SMe
amino acid	H	F	F	SEt
amino acid	Н	F	F	S-cyclopropyl
amino acid	Н	F	F	F
amino acid	Н	F	F	Cl
amino acid	Н	F	F	Br
amino acid	H	F	F	I
amino acid	acyl	F	F	Н
amino acid	acyl	F	F	NH ₂
amino acid	acyl	F	F	NH-cyclopropyl
amino acid	acyl	F	F	NH-methyl
amino acid	acyl	F	F	NH-ethyl
amino acid	acyl	F	F	NH-acetyl
amino acid	acyl	F	F	OH
amino acid	acyl	F	F	OMe
amino acid	acyl	F	F	OEt
amino acid	acyl	F	F	O-cyclopropyl
amino acid	acyl	F	F	O-acetyl
amino acid	acyl	F	F	SH
amino acid	acyl	F	F	SMe
amino acid	acyl	F	F	SEt
amino acid	acyl	F	F	S-cyclopropyl
amino acid	acyl	F	F	F
amino acid	acyl	F	F	Cl
amino acid	acyl	F	F	Br
amino acid	acyl	F	F	I
acyl	Н	NH ₂	F	H
	L**	11112	1	111

R ²	\mathbb{R}^3	X	X ²	Y
acyl	H	NH ₂	F	NH ₂
acyl	Н	NH ₂	F	NH-cyclopropyl
acyl	Н	NH ₂	F	NH-methyl
acyl	H	NH ₂	F	NH-ethyl
acyl	Н	NH ₂	F	NH-acetyl
acyl	H	NH ₂	F	ОН
acyl	Н	NH ₂	F	OMe
acyl	H	NH ₂	F	OEt
acyl	Н	NH ₂	F	O-cyclopropyl
acyl	Н	NH ₂	F	O-acetyl
acyl	Н	NH ₂	F	SH
acyl	Н	NH ₂	F	SMe
acyl	H	NH ₂	F	SEt
acyl	Н	NH ₂	F	S-cyclopropyl
acyl	Н	NH ₂	F	F
acyl	Н	NH ₂	F	Cl
	H	NH ₂	F	Br
acyl	Н	NH ₂	F	I
acyl	acyl	NH ₂	F	Н
acyl	acyl	NH ₂	F	NH ₂
acyl	acyl	NH ₂	·F	NH-cyclopropyl
acyl	acyl	NH ₂	F	NH-methyl
acyl	acyl	NH ₂	F	NH-ethyl
acyl	acyl	NH ₂	F	NH-acetyl
acyl	acyl	NH ₂	F	OH
acyl	acyl	NH ₂	F	OMe
acyl	acyl	NH ₂	F	OEt
acyl	acyl	NH ₂	F	O-cyclopropyl
acyl	acyl	NH ₂	F	O-acetyl
acyl	acyl	NH ₂	F	SH
acyl	acyl	NH ₂	F	SMe
acyl	acyl	NH ₂	F	UDIC.
acyl	acyl	NH ₂	F	S-cyclopropyl
acyl	acyl	NH ₂	F	F
acyl	acyl	NH ₂	F	Cl
acyl	acyl	NH_2	F	Br
acyl	acyl	NH ₂	F_	I
acyl	amino acid	NH ₂	F	H
acyl	amino acid	NH ₂	F	NH ₂
acyl	amino acid	NH ₂	F	NH-cyclopropyl
acyl	amino acid	NH ₂	F	NH-methyl
acyl	amino acid	NH ₂	F	NH-ethyl
acyl	amino acid	NH ₂	F	NH-acetyl
acyl	amino acid	NH ₂	F	ОН
acyl	amino acid	NH ₂	F	OMe
acyl	amino acid	NH ₂	F	OEt
acyl	amino acid	NH ₂	F	O-cyclopropyl

R ²	\mathbb{R}^3	X	X ²	Y
acyl	amino acid	NH ₂	F	O-acetyl
acyl	amino acid	NH ₂	F	SH
acyl	amino acid	NH ₂	F	SMe
acyl	amino acid	NH ₂	F	SEt
acyl	amino acid	NH ₂	F	S-cyclopropyl
acyl	amino acid	NH ₂	F	F
acyl	amino acid	NH ₂	F	Cl
acyl	amino acid	NH ₂	F	Br
acyl	amino acid	NH ₂	F	I
H	acyl	NH ₂	F	Н
H	acyl	NH ₂	F	NH ₂
H	acyl	NH ₂	F	NH-cyclopropyl
H	acyl	NH ₂	F	NH-methyl
H	acyl	NH ₂	F	NH-ethyl
Н	acyl	NH ₂	F	NH-acetyl
H	acyl	NH ₂	F	ОН
Н	acyl	NH ₂	F	OMe
Н	acyl	NH ₂	F	OEt
H	acyl	NH ₂	F	O-cyclopropyl
H	acyl	NH ₂	F	O-acetyl
Н	acyl	NH ₂	F	SH
H	acyl	NH ₂	F	SMe
Н	acyl	NH ₂	F	SEt
H	acyl	NH ₂	F	S-cyclopropyl
H	acyl	NH ₂	F	F
Н	acyl	NH ₂	F	Cl
Н	acyl	NH ₂	F	Br
Н	acyl	NH ₂	F	Ĩ
Н	amino acid	NH ₂	F	Н
Н	amino acid	NH ₂	F	NH ₂
H	amino acid	NH ₂	F	NH-cyclopropyl
Н	amino acid	NH ₂	F	NH-methyl
H	amino acid	NH ₂	F	NH-ethyl
Н	amino acid	NH ₂	F	NH-acetyl
H	amino acid	NH ₂	F	OH
H	amino acid	NH ₂	F	OMe
H	amino acid	NH ₂	F	OEt
Н	amino acid	NH ₂	F	O-cyclopropyl
H	amino acid	NH ₂	F	O-acetyl
Н	amino acid	NH ₂	F	SH
Н	amino acid	NH ₂	F	SMe
Н	amino acid	NH ₂	F	SEt
Н	amino acid	NH ₂	F	S-cyclopropyl
Н	amino acid	NH ₂	F	F
Н	amino acid	NH ₂	F	C1
H	amino acid	NH ₂	F	Br
Н	amino acid	NH ₂	F	I

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	amino acid	NH ₂	F	H
amino acid	amino acid	NH ₂	F	NH ₂
amino acid	amino acid	NH ₂	F	NH-cyclopropyl
amino acid	amino acid	NH ₂	F	NH-methyl
amino acid	amino acid	NH ₂	F	NH-ethyl
amino acid	amino acid	NH ₂	F	NH-acetyl
amino acid	amino acid	NH ₂	F	OH
amino acid	amino acid	NH ₂	F	OMe
amino acid	amino acid	NH ₂	F	OEt
amino acid	amino acid	NH ₂	F	O-cyclopropyl
amino acid	amino acid	NH ₂	F	O-acetyl
amino acid	amino acid	NH ₂	F	SH
amino acid	amino acid	NH ₂	F	SMe
amino acid	amino acid	NH ₂	F	SEt
amino acid	amino acid	NH ₂	F	S-cyclopropyl
amino acid	amino acid	NH ₂	F	F S-cyclopropyr
amino acid	amino acid	NH ₂	F	Cl
amino acid	amino acid	NH ₂	F	Br
amino acid	amino acid	NH ₂	F	I
amino acid	Н	NH ₂	F	H
amino acid	H	NH ₂	F	NH ₂
amino acid	H	NH ₂	F	NH-cyclopropyl
amino acid	H	NH ₂	F	NH-methyl
amino acid	H	NH ₂	F	NH-ethyl
amino acid	Н	NH ₂	F	NH-acetyl
amino acid	Н	NH ₂	F	OH
amino acid	Н	NH ₂	F	OMe
amino acid	H	NH ₂	F	OEt
amino acid	H	NH ₂	F	O-cyclopropyl
amino acid	H	NH ₂	F	O-acetyl
amino acid	H	NH ₂	F	SH
amino acid	Н	NH ₂	F	SMe
amino acid	Н	NH ₂	F	SEt
amino acid	Н	NH ₂	F	S-cyclopropyl
amino acid	H	NH ₂	F	F
amino acid	Н	NH ₂	F	Cl
amino acid	H	NH ₂	F	Br
amino acid	H	NH ₂	F	I
amino acid	acyl	NH ₂	F	H
amino acid	acyl	NH ₂	F	NH ₂
amino acid	acyl	NH ₂	F	NH-cyclopropyl
amino acid	acyl	NH ₂	F	NH-methyl
amino acid	acyl	NH ₂	F	NH-ethyl
amino acid	acyl	NH ₂	F	NH-acetyl
amino acid	acyl	NH ₂	F	OH
amino acid	acyl	NH ₂	F	OMe
amino acid	acyl	NH ₂	F	OEt
minio acia	1 mys	1 11112	1.1	OEL

R ²	R ³	X ¹	X ²	Y
amino acid	acyl	NH ₂	F	O-cyclopropyl
amino acid	acyl	NH ₂	F	O-acetyl
amino acid	acyl	NH ₂	F	SH
amino acid	acyl	NH ₂	F	SMe
amino acid	acyl	NH ₂	F	SEt
amino acid	acyl	NH ₂	F	S-cyclopropyl
amino acid	acyl	NH ₂	F	F
amino acid	acyl	NH ₂	F	Cl
amino acid	acyl	NH ₂	F	Br
amino acid	acyl	NH ₂	F	I
acyl	Н	SH	F	Н
acyl	H	SH	F	NH ₂
acyl	Н	SH	F	NH-cyclopropyl
acyl	H	SH	F	NH-methyl
acyl	Н	SH	F	NH-ethyl
acyl	H	SH	F	NH-acetyl
acyl	Н	SH	F	ОН
acyl	Н	SH	F	OMe
acyl	H	SH	F	OEt
acyl	H	SH	F	O-cyclopropyl
acyl	Н	SH	F	O-acetyl
acyl	Н	SH	F	SH
acyl	H	SH	F	SMe
acyl	Н	SH	F	SEt
acyl	Н	SH	F	S-cyclopropyl
acyl	H	SH	F	F
acyl	Н	SH	F	Cl
acyl	Н	SH	F	Br
acyl	Н	SH	F	I
acyl	acyl	SH	F	H
acyl	acyl	SH	F	NH ₂
acyl	acyl	SH	F	NH-cyclopropyl
acyl	acyl	SH	F	NH-methyl
acyl	acyl	SH	F	NH-ethyl
acyl	acyl	SH	F	NH-acetyl
acyl	acyl	SH	F	OH
acyl	acyl	SH	F	OMe
acyl	acyl	SH	F	OEt
acyl	acyl	SH	F	O-cyclopropyl
acyl	acyl	SH	F	O-acetyl
acyl	acyl	SH	F	SH
acyl	acyl	SH	F	SMe
acyl	acyl	SH	F	SEt
acyl	acyl	SH	F	S-cyclopropyl
acyl	acyl	SH	F	F
	1			
acyl	acyl	SH	F	Cl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	acyl	SH	F	I
acyl	amino acid	SH	F	Н
acyl	amino acid	SH	F	NH ₂
acyl	amino acid	SH	F	NH-cyclopropyl
acyl	amino acid	SH	F	NH-methyl
acyl	amino acid	SH	F	NH-ethyl
acyl	amino acid	SH	F	NH-acetyl
acyl	amino acid	SH	F	ОН
acyl	amino acid	SH	F	OMe
acyl	amino acid	SH	F	OEt
acyl	amino acid	SH	F	O-cyclopropyl
acyl	amino acid	SH	$\frac{1}{F}$	O-acetyl
acyl	amino acid	SH	F	SH
acyl	amino acid	SH	F	SMe
acyl	amino acid	SH	F	SEt
acyl	amino acid	SH	F	S-cyclopropyl
acyl	amino acid	SH	F	F
acyl	amino acid	SH	F	Cl
acyl	amino acid	SH	F	Br
acyl	amino acid	SH	F	I
H	acyl	SH	F	H
H	acyl	SH	F	NH ₂
H	acyl	SH	F	NH-cyclopropyl
H	acyl	SH	F	NH-methyl
H	acyl	SH	F	NH-ethyl
H	acyl	SH	F	NH-acetyl
Н	acyl	SH	F	ОН
Н	acyl	SH	F	OMe
Н	acyl	SH	F	OEt
H	acyl	SH	F	O-cyclopropyl
Н	acyl	SH	F	O-acetyl
Н	acyl	SH	F	SH
H	acyl	SH	F	SMe
Н	acyl	SH	F	SEt
Н	acyl	SH	F	S-cyclopropyl
H	acyl	SH	F	F
H	acyl	SH	F	Cl
H	acyl	SH	F	Br
H	acyl	SH	F	I
H	amino acid	SH	F	H
H	amino acid	SH	F	NH ₂
H	amino acid	SH	F	NH-cyclopropyl
H	amino acid	SH	F	NH-methyl
H	amino acid	SH	F	NH-ethyl
H	amino acid	SH	F	NH-acetyl
H	amino acid	SH	$\frac{\mathbf{F}}{\mathbf{F}}$	OH OH
H	amino acid		$\frac{\mathbf{F}}{\mathbf{F}}$	OMe
	amino acid	SH	Ľ	Oivie

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
H	amino acid	SH	F	OEt
H	amino acid	SH	F	O-cyclopropyl
Н	amino acid	SH	F	O-acetyl
Н	amino acid	SH	F	SH
H	amino acid	SH	F	SMe
Н	amino acid	SH	F	SEt
Н	amino acid	SH	F	S-cyclopropyl
H	amino acid	SH	F	F
Н	amino acid	SH	F	Cl
Н	amino acid	SH	F	Br
H	amino acid	SH	F	I
amino acid	amino acid	SH	F	H
amino acid	amino acid	SH	F	NH ₂
amino acid	amino acid	SH	F	NH-cyclopropyl
amino acid	amino acid	SH	F	NH-methyl
amino acid	amino acid	SH	F	NH-ethyl
amino acid	amino acid	SH	F	NH-acetyl
amino acid	amino acid	SH	F	OH
amino acid	amino acid	SH	F	OMe
amino acid	amino acid	SH	F	OEt
amino acid	amino acid	SH	F	O-cyclopropyl
amino acid	amino acid	SH	F	O-acetyl
amino acid	amino acid	SH	F	SH
amino acid	amino acid	SH	F	SMe
amino acid	amino acid	SH	F	SEt
amino acid	amino acid	SH	F	S-cyclopropyl
amino acid	amino acid	SH	F	F
amino acid	amino acid	SH	. F	Cl
amino acid	amino acid	SH	F	Br
amino acid	amino acid	SH	F	I
amino acid	H	SH	F	H
amino acid	Н	SH	F	NH ₂
amino acid	H	SH	F	NH-cyclopropyl
amino acid	H	SH	F	NH-methyl
amino acid	Н	SH	F	NH-ethyl
amino acid	H	SH	F	NH-acetyl
amino acid	H	SH	F	ОН
amino acid	H	SH	F	OMe
amino acid	Н	SH	F	OEt
amino acid	Н	SH	F	O-cyclopropyl
amino acid	H	SH	F	O-acetyl
amino acid	Н	SH	F	SH
amino acid	Н	SH	F	SMe
amino acid	H	SH	F	SEt
amino acid	H	SH	F	S-cyclopropyl
amino acid	H	SH	F	F
amino acid	H	SH	F	Cl

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	H	SH	F	Br
amino acid	H	SH	F	I
amino acid	acyl	SH	F	Н
amino acid	acyl	SH	F	NH ₂
amino acid	acyl	SH	F	NH-cyclopropyl
amino acid	acyl	SH	F	NH-methyl
amino acid	acyl	SH	F	NH-ethyl
amino acid	acyl	SH	F	NH-acetyl
amino acid	acyl	SH	F	OH
amino acid	acyl	SH	F	OMe
amino acid	acyl	SH	F	OEt
amino acid	acyl	SH	F	O-cyclopropyl
amino acid	acyl	SH	F	O-acetyl
amino acid	acyl	SH	F	SH
amino acid	acyl	SH	F	SMe
amino acid	acyl	SH	F	SEt
amino acid	acyl	SH	F	S-cyclopropyl
amino acid	acyl	SH	F	F
amino acid	acyl	SH	F	Cl
amino acid	acyl	SH	F	Br
amino acid	acyl	SH	F	1
acyl	H	OH	F	Н
acyl	Н	OH	F	NH ₂
acyl	Н	OH	F	NH-cyclopropyl
acyl	Н	OH	F	NH-methyl
acyl	Н	OH	F	NH-ethyl
acyl	H	OH	F	NH-acetyl
acyl	Н	OH	F	OH
acyl	Н	ОН	F	OMe
acyl	Н	OH	F	OEt
acyl	Н	OH	F	O-cyclopropyl
acyl	Н	OH	F	O-acetyl
acyl	H	ОН	F	SH
acyl	H	OH	F	SMe
acyl	H	OH	F	SEt
acyl	Н	OH	F	S-cyclopropyl
acyl	H	OH	F	F
acyl	H	ОН	F	Cl
acyl	H	OH	F	Br
acyl	H	ОН	F	I
acyl	acyl	OH	F	Н
acyl	acyl	OH	F	NH ₂
acyl	acyl	OH	F	NH-cyclopropyl
acyl	acyl	OH	F	NH-methyl
acyl	acyl	OH	F	NH-ethyl
acyl	acyl	OH	F	NH-acetyl
acyl	acyl	OH	F	ОН

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
acyl	acyl	OH	F	OMe
acyl	acyl	OH	F	OEt
acyl	acyl	OH	F	O-cyclopropyl
acyl	acyl	OH	F	O-acetyl
acyl	acyl	OH	F	SH
acyl	acyl	OH	F	SMe
acyl	acyl	ОН	F	SEt
acyl	acyl	OH	F	S-cyclopropyl
acyl	acyl	ОН	F	F
acyl	acyl	OH	F	Cl
acyl	acyl	ОН	F	Br
acyl	acyl	OH	F	I
acyl	amino acid	OH	F	H
acyl	amino acid	OH	$\frac{1}{F}$	NH ₂
acyl	amino acid	OH	F	NH-cyclopropyl
acyl	amino acid	OH	F	NH-methyl
acyl	amino acid	OH	F	NH-ethyl
acyl	amino acid	OH	F	NH-acetyl
acyl	amino acid	OH	F	OH
acyl	amino acid	OH	$\frac{\mathbf{F}}{\mathbf{F}}$	OMe
acyl	amino acid	OH	F	OEt
acyl	amino acid	OH	$\frac{\mathbf{F}}{\mathbf{F}}$	
acyl	amino acid	OH	$-\frac{\mathbf{F}}{\mathbf{F}}$	O-cyclopropyl
acyl	amino acid	OH	$\frac{\mathbf{F}}{\mathbf{F}}$	O-acetyl SH
acyl	amino acid	OH	F	SMe
acyl	amino acid	OH	F	SEt
		OH	F	
acyl	amino acid	OH	F	S-cyclopropyl F
acyl	amino acid			
acyl		OH	F	Cl
acyl	amino acid	OH	F	Br
acyl	amino acid	OH	F	I
H	acyl	OH	F	H
	acyl	OH		NH ₂
H	acyl	OH	F	NH-cyclopropyl
H	acyl	OH	F	NH-methyl
H	acyl	OH	F	NH-ethyl
H	acyl	OH	F	NH-acetyl
H	acyl	OH	F	ОН
H	acyl	OH	F	OMe .
H	acyl	OH	F	OEt
Н	acyl	OH	F	O-cyclopropyl
Н	acyl	OH	F	O-acetyl
H	acyl	OH	F	SH
Н	acyl	OH	F	SMe
Н	acyl	OH	F	SEt
H	acyl	OH	F	S-cyclopropyl
Н	acyl	OH	F	F

\mathbb{R}^2	\mathbb{R}^3	X¹	X ²	Y
Н	acyl	OH	F	Cl
Н	acyl	ОН	F	Br
H	acyl	OH	F	Ī
H	amino acid	OH	F	H
Н	amino acid	OH	F	NH ₂
H	amino acid	OH	F	NH-cyclopropyl
H	amino acid	OH	F	NH-methyl
H	amino acid	ОН	F	NH-ethyl
H	amino acid	OH	F	NH-acetyl
H	amino acid	OH	F	OH
Н	amino acid	OH	F	OMe
Н	amino acid	OH	F	OEt
H	amino acid	OH	F	O-cyclopropyl
H	amino acid	OH	F	O-acetyl
H	amino acid	OH	F	SH
H	amino acid	ОН	F	SMe
<u>H</u>	amino acid	OH	F	SEt
Н	amino acid	OH	F	S-cyclopropyl
Н	amino acid	OH	F	F
H	amino acid	OH	F	Cl
Н	amino acid	OH	F	Br
H	amino acid	OH	F	I
amino acid	amino acid	OH	F	H
amino acid	amino acid	OH	F	NH ₂
amino acid	amino acid	OH	F	NH-cyclopropyl
amino acid	amino acid	OH	F	NH-methyl
amino acid	amino acid	ОН	F	NH-ethyl
amino acid	amino acid	OH	F	NH-acetyl
amino acid	amino acid	OH	F	OH
amino acid	amino acid	ОН	F	OMe
amino acid	amino acid	OH	F	OEt
amino acid	amino acid	OH	F	O-cyclopropyl
amino acid	amino acid	OH	F	O-acetyl
amino acid	amino acid	ОН	F	SH
amino acid	amino acid	OH	F	SMe
amino acid	amino acid	OH	F	SEt
amino acid	amino acid	OH	F	S-cyclopropyl
amino acid	amino acid	OH	F	F
amino acid	amino acid	OH	F	Cl
amino acid	amino acid	OH	F	Br
amino acid	amino acid	OH	F	I
amino acid	H	OH	F	H
amino acid	H	OH	F	NH ₂
amino acid	H	OH	F	NH-cyclopropyl
amino acid	H	OH	F	NH-methyl
amino acid	H	ОН	F	NH-ethyl
amino acid	H	OH	F	NH-acetyl

R ²	\mathbb{R}^3	X ¹	X ²	Y
amino acid	Н	ОН	F	OH
amino acid	H	OH	F	OMe
amino acid	H	OH	F	OEt
amino acid	Н	OH	F	O-cyclopropyl
amino acid	H	ОН	F	O-acetyl
amino acid	Н	OH	F	SH
amino acid	H	ОН	F	SMe
amino acid	H	OH	F	SEt
amino acid	H	ОН	F	S-cyclopropyl
amino acid	H	ОН	F	F
amino acid	Н	ОН	F	CI
amino acid	H	OH	F	Br
amino acid	H	OH	F	I
amino acid	acyl	OH	F	H
amino acid	acyl	OH	F	NH ₂
amino acid	acyl	OH	F	NH-cyclopropyl
amino acid	acyl	OH	F	NH-methyl
amino acid	acyl	OH	F	NH-ethyl
amino acid	acyl	OH	F	NH-acetyl
amino acid	acyl	OH	F	OH
amino acid	acyl	OH	F	OMe
amino acid	acyl	OH	F	OEt
amino acid	acyl	OH	F	O-cyclopropyl
amino acid	acyl	ОН	F	O-acetyl
amino acid	acyl	ОН	F	SH
amino acid	acyl	OH	F	SMe
amino acid	acyl	ОН	F	SEt
amino acid	acyl	OH	F	S-cyclopropyl
amino acid	acyl	ОН	F	F
amino acid	acyl	ОН	F	Cl
amino acid	acyl	OH	F	Br
amino acid	acyl	ОН	F	Ī
acyl	H	CH ₃	NH ₂	Н
acyl	H	CH ₃	NH ₂	NH ₂
acyl	Н	CH ₃	NH ₂	NH-cyclopropyl
acyl	Н	CH ₃	NH ₂	NH-methyl
acyl	H	CH ₃	NH ₂	NH-ethyl
acyl	Н	CH ₃	NH ₂	NH-acetyl
acyl	H	CH ₃	NH ₂	OH
acyl	H	CH ₃	NH ₂	OMe
acyl	H	CH ₃	NH ₂	OEt
acyl	H	CH ₃	NH ₂	O-cyclopropyl
acyl	H	CH ₃	NH ₂	O-acetyl
acyl	H	CH ₃	NH ₂	SH
acyl	H	CH ₃	NH ₂	SMe
acyl	H	CH ₃	NH ₂	SEt
acyl	H	CH ₃		
acyi	111	UI13	NH ₂	S-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	X^1	X ²	Y
acyl	H	CH ₃	NH ₂	F
acyl	Н	CH ₃	NH ₂	CI
acyl	Н	CH ₃	NH ₂	Br
acyl	H	CH ₃	NH ₂	I
acyl	acyl	CH ₃	NH ₂	H
acyl	acyl	CH ₃	NH ₂	NH ₂
acyl	acyl	CH ₃	NH ₂	NH-cyclopropyl
acyl	acyl	CH ₃	NH ₂	NH-methyl
acyl	acyl	CH ₃	NH ₂	NH-ethyl
acyl	acyl	CH ₃	NH ₂	NH-acetyl
acyl	acyl	CH ₃	NH ₂	OH
acyl	acyl	CH ₃	NH ₂	OMe
acyl	acyl	CH ₃	NH ₂	OEt
acyl	acyl	CH ₃	NH ₂	O-cyclopropyl
acyl	acyl	CH ₃	NH ₂	O-acetyl
acyl	acyl	CH ₃	NH ₂	SH
acyl	acyl	CH ₃	NH ₂	SMe
acyl	acyl ,	CH ₃	NH ₂	SEt
acyl	acyl	CH ₃	NH ₂	S-cyclopropyl
acyl	acyl	CH ₃	NH ₂	F
acyl	acyl	CH ₃	NH ₂	C1
acyl	acyl	CH ₃	NH ₂	Br
acyl	acyl	CH ₃	NH ₂	I
acyl	amino acid	CH ₃	NH ₂	H
acyl	amino acid	CH ₃	NH ₂	NH ₂
acyl	amino acid	CH ₃	NH ₂	NH-cyclopropyl
acyl	amino acid	CH ₃	NH ₂	NH-methyl
acyl	amino acid	CH ₃	NH ₂	NH-ethyl
acyl	amino acid	CH ₃	NH ₂	NH-acetyl
acyl	amino acid	CH ₃	NH ₂	ОН
acyl	amino acid	CH ₃	NH ₂	OMe
acyl	amino acid	CH ₃	NH ₂	OEt
acyl	amino acid	CH ₃	NH ₂	O-cyclopropyl
acyl	amino acid	CH ₃	NH ₂	O-acetyl
acyl	amino acid	CH ₃	NH ₂	SH
acyl	amino acid	CH ₃	NH ₂	SMe
acyl	amino acid	CH ₃	NH ₂	SEt
acyl	amino acid	CH ₃	NH ₂	S-cyclopropyl
acyl	amino acid	CH ₃	NH ₂	F
acyl	amino acid	CH ₃	NH ₂	Cl
acyl	amino acid	CH ₃	NH ₂	Br
acyl	amino acid	CH ₃	NH ₂	I
Н	acyl	CH ₃	NH ₂	H
H	acyl	CH ₃	NH ₂	NH ₂
H	acyl	CH ₃	NH ₂	NH-cyclopropyl
H	acyl	CH ₃	NH ₂	NH-methyl
H	acyl	CH ₃	NH ₂	NH-ethyl

\mathbb{R}^2	\mathbb{R}^3	X^1	X ²	Y
H	acyl	CH ₃	NH ₂	NH-acetyl
H	acyl	CH ₃	NH ₂	ОН
H	acyl	CH ₃	NH ₂	OMe
Н	acyl	CH ₃	NH ₂	OEt
H	acyl	CH ₃	NH ₂	O-cyclopropyl
H	acyl	CH ₃	NH ₂	O-acetyl
H	acyl	CH ₃	NH ₂	SH
Н	acyl	CH ₃	NH ₂	SMe
H	acyl	CH ₃	NH ₂	SEt
H	acyl	CH ₃	NH ₂	S-cyclopropyl
Н	acyl	CH ₃	NH ₂	F
H	acyl	CH ₃	NH ₂	Cl
H	acyl	CH ₃	NH ₂	Br
H	acyl	CH ₃	NH ₂	I
H	amino acid	CH ₃	NH ₂	H
H	amino acid	CH ₃	NH ₂	NH ₂
Н	amino acid	CH ₃	NH ₂	NH-cyclopropyl
Н	amino acid	CH ₃	NH ₂	NH-methyl
H	amino acid	CH ₃	NH ₂	NH-ethyl
H	amino acid	CH ₃	NH ₂	NH-acetyl
H	amino acid	CH ₃	NH ₂	OH
H	amino acid	CH ₃	NH ₂	OMe
H	amino acid	CH ₃	NH ₂	OEt
H	amino acid	CH ₃	NH ₂	O-cyclopropyl
H	amino acid	CH ₃	NH ₂	O-acetyl
H	amino acid	CH ₃	NH ₂	SH
H	amino acid	CH ₃	NH ₂	SMe
Н	amino acid	CH ₃	NH ₂	SEt
Н	amino acid	CH ₃	NH ₂	S-cyclopropyl
H	amino acid	CH ₃	NH ₂	F
H	amino acid	CH ₃	NH ₂	Cl
H	amino acid	CH ₃	NH ₂	Br
H	amino acid	CH ₃	NH ₂	I
amino acid	amino acid	CH ₃	NH ₂	H
amino acid	amino acid	CH ₃	NH ₂	NH ₂
amino acid	amino acid	CH ₃	NH ₂	NH-cyclopropyl
amino acid	amino acid	CH ₃	NH ₂	NH-methyl
amino acid	amino acid	CH ₃	NH ₂	NH-ethyl
amino acid	amino acid	CH ₃	NH ₂	NH-acetyl
amino acid	amino acid	CH ₃	NH ₂	OH
amino acid	amino acid	CH ₃	NH ₂	OMe
amino acid	amino acid	CH ₃	NH ₂	OEt
amino acid	amino acid	CH₃	NH ₂	O-cyclopropyl
amino acid	amino acid	CH ₃	NH ₂	O-acetyl
amino acid	amino acid	CH ₃	NH ₂	SH
amino acid	amino acid	CH ₃	NH ₂	SMe
amino acid	amino acid	CH ₃	NH ₂	SEt

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
amino acid	amino acid	CH ₃	NH ₂	S-cyclopropyl
amino acid	amino acid	CH ₃	NH ₂	F
amino acid	amino acid	CH ₃	NH ₂	Cl
amino acid	amino acid	CH ₃	NH ₂	Br
amino acid	amino acid	CH ₃	NH ₂	I
amino acid	H	CH ₃	NH ₂	H
amino acid	H	CH ₃	NH ₂	NH ₂
amino acid	Н	CH ₃	NH ₂	NH-cyclopropyl
amino acid	H	CH ₃	NH ₂	NH-methyl
amino acid	H	CH ₃	NH ₂	NH-ethyl
amino acid	Н	CH ₃	NH ₂	NH-acetyl
amino acid	Н	CH ₃	NH ₂	ОН
amino acid	H	CH ₃	NH ₂	OMe
amino acid	Н	CH ₃	NH ₂	OEt
amino acid	Н	CH ₃	NH ₂	O-cyclopropyl
amino acid	Н	CH ₃	NH ₂	O-acetyl
amino acid	Н	CH ₃	NH ₂	SH
amino acid	Н	CH ₃	NH ₂	SMe
amino acid	Н	CH ₃	NH ₂	SEt
amino acid	H	CH ₃	NH ₂	S-cyclopropyl
amino acid	Н	CH ₃	NH ₂	F
amino acid	H	CH ₃	NH ₂	Cl
amino acid	H	CH ₃	NH ₂	Br
amino acid	H	CH ₃	NH ₂	I
amino acid	acyl	CH ₃	NH ₂	Н
amino acid	acyl	CH ₃	NH ₂	NH ₂
amino acid	acyl	CH ₃	NH ₂	NH-cyclopropyl
amino acid	acyl	CH ₃	NH ₂	NH-methyl
amino acid	acyl	CH ₃	NH ₂	NH-ethyl
amino acid	acyl	CH ₃	NH ₂	NH-acetyl
amino acid	acyl	CH ₃	NH ₂	ОН
amino acid	acyl	CH ₃	NH ₂	OMe
amino acid	acyl	CH ₃	NH ₂	OEt
amino acid	acyl	CH ₃	NH ₂	O-cyclopropyl
amino acid	acyl	CH ₃	NH ₂	O-acetyl
amino acid	acyl	CH ₃	NH ₂	SH
amino acid	acyl	CH ₃	NH ₂	SMe
amino acid	acyl	CH ₃	NH ₂	SEt
amino acid	acyl	CH ₃	NH ₂	S-cyclopropyl
amino acid	acyl	CH ₃	NH ₂	F
amino acid	acyl	CH ₃	NH ₂	Cl
amino acid	acyl	CH ₃	NH ₂	Br
amino acid	acyl	CH ₃	NH ₂	I
acyl	H	CF ₃	NH ₂	Н
acyl	H	CF ₃	NH ₂	NH ₂
acyl	H	CF ₃	NH ₂	NH-cyclopropyl
acyl	Н	CF ₃	NH ₂	NH-methyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	H	CF ₃	NH ₂	NH-ethyl
acyl	Н	CF ₃	NH ₂	NH-acetyl
acyl	H	CF ₃	NH ₂	ОН
acyl	H	CF ₃	NH ₂	OMe
acyl	H	CF ₃	NH ₂	OEt
acyl	H	CF ₃	NH ₂	O-cyclopropyl
acyl	H	CF ₃	NH ₂	O-acetyl
acyl	H	CF ₃	NH ₂	SH
acyl	Н	CF ₃	NH ₂	SMe
acyl	Н	CF ₃	NH ₂	SEt
acyl	H	CF ₃	NH ₂	S-cyclopropyl
acyl	Н	CF ₃	NH ₂	F
acyl	H	CF ₃	NH ₂	Cl
acyl	H	CF ₃	NH ₂	Br
acyl	Н	CF ₃	NH ₂	I
acyl	acyl	CF ₃	NH ₂	Н
acyl	acyl	CF ₃	NH ₂	NH ₂
acyl	acyl	CF ₃	NH ₂	NH-cyclopropyl
acyl	acyl	CF ₃	NH ₂	NH-methyl
acyl	acyl	CF ₃	NH ₂	NH-ethyl
acyl	acyl	CF ₃	NH ₂	NH-acetyl
acyl	acyl	CF ₃	NH ₂	OH
acyl	acyl	CF ₃	NH ₂	OMe
acyl	acyl	CF ₃	NH ₂	OEt
acyl	acyl	CF ₃	NH ₂	O-cyclopropyl
acyl	acyl	CF ₃	NH ₂	O-acetyl
acyl	acyl	CF ₃	NH ₂	SH
acyl	acyl	CF ₃	NH ₂	SMe
acyl	acyl	CF ₃	NH ₂	SEt
acyl	acyl	CF ₃	NH ₂	S-cyclopropyl
acyl	acyl	CF ₃	NH ₂	F
acyl	acyl	CF ₃	NH ₂	Cl
acyl	acyl	CF ₃	NH ₂	Br
acyl	acyl	CF ₃	NH ₂	I
acyl	amino acid	CF ₃	NH ₂	H
acyl	amino acid	CF ₃	NH ₂	NH ₂
acyl	amino acid	CF ₃	NH ₂	NH-cyclopropyl
acyl	amino acid	CF ₃	NH ₂	NH-methyl
acyl	amino acid	CF ₃	NH ₂	NH-ethyl
acyl	amino acid	CF ₃	NH ₂	NH-acetyl
acyl	amino acid	CF ₃	NH ₂	ОН
acyl	amino acid	CF ₃	NH ₂	OMe
acyl	amino acid	CF ₃	NH ₂	OEt
acyl	amino acid	CF ₃	NH ₂	O-cyclopropyl
acyl	amino acid	CF ₃	NH ₂	O-acetyl
acyl	amino acid	CF ₃	NH ₂	SH
acyl	amino acid	CF ₃	NH ₂	SMe

R ²	\mathbb{R}^3	X ¹	X^2	Y
acyl	amino acid	CF ₃	NH ₂	SEt
acyl	amino acid	CF ₃	NH ₂	S-cyclopropyl
acyl	amino acid	CF ₃	NH ₂	F
acyl	amino acid	CF ₃	NH ₂	Cl
acyl	amino acid	CF ₃	NH ₂	Br
acyl	amino acid	CF ₃	NH ₂	I
Н	acyl	CF ₃	NH ₂	H
H	acyl	CF ₃	NH ₂	NH ₂
H	acyl	CF ₃	NH ₂	NH-cyclopropyl
H	acyl	CF ₃	NH ₂	NH-methyl
H	acyl	CF ₃	NH ₂	NH-ethyl
H	acyl	CF ₃	NH ₂	NH-acetyl
H	acyl	CF ₃	NH ₂	OH
H	acyl	CF ₃	NH ₂	OMe
H	acyl	CF ₃	NH ₂	OEt
H	acyl	CF ₃	NH ₂	O-cyclopropyl
H	acyl	CF ₃	NH ₂	O-acetyl
H	acyl	CF ₃	NH ₂	SH
H	acyl	CF ₃	NH ₂	SMe
H	acyl	CF ₃	NH ₂	SEt
H	acyl	CF ₃	NH ₂	S-cyclopropyl
H .	acyl	CF ₃	NH ₂	F
H	acyl	CF ₃	NH ₂	Cl
H	acyl	CF ₃	NH ₂	Br
H	acyl	· CF ₃	NH ₂	I
H	amino acid	CF ₃	NH ₂	Н
H	amino acid	CF ₃	NH ₂	NH ₂
H	amino acid	CF ₃	NH ₂	NH-cyclopropyl
H	amino acid	CF ₃	NH ₂	NH-methyl
Н	amino acid	CF ₃	NH ₂	NH-ethyl
Н	amino acid	CF ₃	NH ₂	NH-acetyl
H	amino acid	CF ₃	NH ₂	OH
H	amino acid	CF ₃	NH ₂	OMe
H	amino acid	CF ₃	NH ₂	OEt
H	amino acid	CF ₃	NH ₂	O-cyclopropyl
Ĥ	amino acid	CF ₃	NH ₂	O-acetyl
<u>H</u>	amino acid	CF ₃	NH ₂	SH
H	amino acid	CF ₃	NH ₂	SMe
H	amino acid	CF ₃	NH ₂	SEt
H	amino acid	CF ₃	NH ₂	S-cyclopropyl
H	amino acid	CF ₃	NH ₂	F
<u>H</u> .	amino acid	CF ₃	NH ₂	Cl
H	amino acid	CF ₃	NH ₂	Br
H	amino acid	CF ₃	NH ₂	I
amino acid	amino acid	CF ₃	NH ₂	H
amino acid	amino acid	CF ₃	NH ₂	NH ₂
amino acid	amino acid	CF ₃	NH ₂	NH-cyclopropyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	amino acid	CF ₃	NH ₂	NH-methyl
amino acid	amino acid	CF ₃	NH ₂	NH-ethyl
amino acid	amino acid	CF ₃	NH ₂	NH-acetyl
amino acid	amino acid	CF ₃	NH ₂	OH
amino acid	amino acid	CF ₃	NH ₂	OMe
amino acid	amino acid	CF ₃	NH ₂	OEt
amino acid	amino acid	CF ₃	NH ₂	O-cyclopropyl
amino acid	amino acid	CF ₃	NH ₂	O-acetyl
amino acid	amino acid	CF ₃	NH ₂	SH
amino acid	amino acid	CF ₃	NH ₂	SMe
amino acid	amino acid	CF ₃	NH ₂	SEt
amino acid	amino acid	CF ₃	NH ₂	S-cyclopropyl
amino acid	amino acid	CF ₃	NH ₂	F
amino acid	amino acid	CF ₃	NH ₂	Cl
amino acid	amino acid	CF ₃	NH ₂	Br
amino acid	amino acid	CF ₃	NH ₂	I
amino acid	H	CF ₃	NH ₂	H
amino acid	Н	CF ₃	NH ₂	NH ₂
amino acid	Н	CF ₃	NH ₂	NH-cyclopropyl
amino acid	Н	CF ₃	NH ₂	NH-methyl
amino acid	Н	CF ₃	NH ₂	NH-ethyl
amino acid	H	CF ₃	NH ₂	NH-acetyl
amino acid	Н	CF ₃	NH ₂	OH
amino acid	Н	CF ₃	NH ₂	OMe
amino acid	Н	CF ₃	NH ₂	OEt
amino acid	Н	CF ₃	NH ₂	O-cyclopropyl
amino acid	Н	CF ₃	NH ₂	O-acetyl
amino acid	Н	CF ₃	NH ₂	SH
amino acid	Н	CF ₃	NH ₂	SMe
amino acid	H	CF ₃	NH ₂	SEt
amino acid	Н	CF ₃	NH ₂	S-cyclopropyl
amino acid	Н	CF ₃	NH ₂	F
amino acid	H	CF ₃	NH ₂	Cl
amino acid	H	CF ₃	NH ₂	Br
amino acid	H	CF ₃	NH ₂	I
amino acid	acyl	CF ₃	NH ₂	Н
amino acid	acyl	CF ₃	NH ₂	NH ₂
amino acid	acyl	CF ₃	NH ₂	NH-cyclopropyl
amino acid	acyl	CF ₃	NH ₂	NH-methyl
amino acid	acyl	CF ₃	NH ₂	NH-ethyl
amino acid	acyl	CF ₃	NH ₂	NH-acetyl
amino acid	acyl	CF ₃	NH ₂	OH
amino acid	acyl	CF ₃	NH ₂	OMe
amino acid	acyl	CF ₃	NH ₂	OEt
amino acid	acyl	CF ₃	NH ₂	O-cyclopropyl
amino acid	acyl	CF ₃	NH ₂	O-acetyl
amino acid	acyl	CF ₃	NH ₂	SH

\mathbb{R}^2	\mathbb{R}^3	X¹	X^2	Y
amino acid	acyl	CF ₃	NH ₂	SMe
amino acid	acyl	CF ₃	NH ₂	SEt
amino acid	acyl	CF ₃	NH ₂	S-cyclopropyl
amino acid	acyl	CF ₃	NH ₂	F
amino acid	acyl	CF ₃	NH ₂	Cl
amino acid	acyl	CF ₃	NH ₂	Br
amino acid	acyl	CF ₃	NH ₂	I
acyl	H	Br	NH ₂	H
acyl	H	Br	NH ₂	NH ₂
acyl	H	Br	NH ₂	NH-cyclopropyl
acyl	Н	Br	NH ₂	NH-methyl
acyl	H	Br	NH ₂	NH-ethyl
acyl	Н	Br	NH ₂	NH-acetyl
acyl	Н	Br	NH ₂	ОН
acyl	H	Br	NH ₂	OMe
acyl	H	Br	NH ₂	OEt
acyl	Н	Br	NH ₂	O-cyclopropyl
acyl	Н	Br	NH ₂	O-acetyl
acyl	Н	Br	NH ₂	SH
acyl	H	Br	NH ₂	SMe
acyl	Н	Br	NH ₂	SEt
acyl	Н	Br	NH ₂	S-cyclopropyl
acyl	Н	Br	NH ₂	F
acyl	H	Br	NH ₂	Cl
acyl	H	Br	NH ₂	Br
acyl	Н	Br	NH ₂	I
acyl	acyl	Br	NH ₂	Н
acyl	acyl	Br	NH ₂	NH ₂
acyl	acyl	Br	NH ₂	NH-cyclopropyl
acyl	acyl	Br	NH ₂	NH-methyl
acyl	acyl	Br	NH ₂	NH-ethyl
acyl	acyl	Br	NH ₂	NH-acetyl
acyl	acyl	Br	NH ₂	OH
acyl	acyl	Br	NH ₂	OMe
acyl	acyl	Br	NH ₂	OEt
acyl	acyl	Br	NH ₂	O-cyclopropyl
acyl	acyl	Br	NH ₂	O-acetyl
acyl	acyl	Br	NH ₂	SH
acyl	acyl	Br	NH ₂	SMe
acyl	acyl	Br	NH ₂	SEt
acyl	acyl	Br	NH ₂	S-cyclopropyl
acyl	acyl	Br	NH ₂	F
acyl	acyl	Br	NH ₂	Cl
acyl	acyl	Br	NH ₂	Br
acyl	acyl	Br	NH ₂	Ī
acyl	amino acid	Br	NH ₂	H
acyl	amino acid	Br	NH ₂	NH ₂
	Tanino doid		_1 - 1 - 1 - 1 - 2	1 - 1 - 2

\mathbb{R}^2	R ³	X ¹	X^2	Y
acyl	amino acid	Br	NH ₂	NH-cyclopropyl
acyl	amino acid	Br	NH ₂	NH-methyl
acyl	amino acid	Br	NH ₂	NH-ethyl
acyl	amino acid	Br	NH ₂	NH-acetyl
acyl	amino acid	Br	NH ₂	OH
acyl	amino acid	Br	NH ₂	OMe
acyl	amino acid	Br	NH ₂	OEt
acyl	amino acid	Br	NH ₂	O-cyclopropyl
acyl	amino acid	Br	NH ₂	O-acetyl
acyl	amino acid	Br	NH ₂	SH
acyl	amino acid	Br	NH ₂	SMe
acyl	amino acid	Br	NH ₂	SEt
acyl	amino acid	Br	NH ₂	S-cyclopropyl
acyl	amino acid	Br	NH ₂	F
acyl	amino acid	Br	NH ₂	Cl
acyl	amino acid	Br	NH ₂	Br
acyl	amino acid	Br	NH ₂	Ī
H	acyl	Br	NH ₂	H
H	acyl	Br	NH ₂	NH ₂
H	acyl	Br	NH ₂	NH-cyclopropyl
Н	acyl	Br	NH ₂	NH-methyl
H	acyl	Br	NH ₂	NH-ethyl
Н	acyl	Br	NH ₂	NH-acetyl
Н	acyl	Br	NH ₂	ОН
H	acyl	Br	NH ₂	OMe
H	acyl	Br	NH ₂	OEt
H	acyl	Br	NH ₂	O-cyclopropyl
H	acyl	Br	NH ₂	O-acetyl
Н	acyl	Br	NH ₂	SH
H	acyl	Br	NH ₂	SMe
Н	acyl	Br	NH ₂	SEt
Н	acyl	Br	NH ₂	S-cyclopropyl
H	acyl	Br	NH ₂	F
H	acyl	Br	NH ₂	Cl
Н	acyl	Br	NH ₂	Br
Н	acyl	Br	NH ₂	I
H	amino acid	Br	NH ₂	H
H	amino acid	Br	NH ₂	NH ₂
Н	amino acid	Br	NH ₂	NH-cyclopropyl
Н	amino acid	Br	NH ₂	NH-methyl
H	amino acid	Br	NH ₂	NH-ethyl
Н	amino acid	Br	NH ₂	NH-acetyl
H	amino acid	Br	NH ₂	OH
H	amino acid	Br	NH ₂	OMe
H	amino acid	Br	NH ₂	OEt
H	amino acid	Br	NH ₂	O-cyclopropyl
H	amino acid	Br	NH ₂	O-acetyl
L^*	amino acid	זען	11117	O-accty1

R² R³ X¹ X² Y H amino acid Br NH2 SH H amino acid Br NH2 SSMe H amino acid Br NH2 SEt H amino acid Br NH2 S-cycloprop H amino acid Br NH2 F H amino acid Br NH2 Br H amino acid Br NH2 Br H amino acid Br NH2 Br H amino acid Br NH2 H amino acid amino acid Br NH2 NH-extplopro amino acid amino acid Br NH2 NH-methyl amino acid amino acid Br NH2 NH-methyl amino acid amino acid Br NH2 NH-extpl amino acid amino acid Br NH2 OH amino acid amino acid Br NH2 OHe amino acid amino acid Br <th></th>	
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amino acidHBrNH2NH-cycloproamino acidHBrNH2NH-methylamino acidHBrNH2NH-ethyl	
amino acidHBrNH2NH-methylamino acidHBrNH2NH-ethyl	pyl
amino acid H Br NH ₂ NH-ethyl	
amino acid H Br NH ₂ NH-acetyl	
amino acid H Br NH ₂ OH	
amino acid H Br NH ₂ OMe	
amino acid H Br NH ₂ OEt	
amino acid H Br NH ₂ O-cycloprop	yl
amino acid H Br NH ₂ O-acetyl	
amino acid H Br NH ₂ SH	
amino acid H Br NH ₂ SMe	
amino acid H Br NH ₂ SEt	
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amino acid H Br NH ₂ F	
amino acid H Br NH ₂ Cl	ıl
amino acid H Br NH ₂ Br	/l
amino acid H Br NH ₂ I	/l
amino acid acyl Br NH ₂ H	/l

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	acyl	Br	NH ₂	NH ₂
amino acid	acyl	Br	NH ₂	NH-cyclopropyl
amino acid	acyl	Br	NH ₂	NH-methyl
amino acid	acyl	Br	NH ₂	NH-ethyl
amino acid	acyl	Br	NH ₂	NH-acetyl
amino acid	acyl	Br	NH ₂	OH
amino acid	acyl	Br	NH ₂	OMe
amino acid	acyl	Br	NH ₂	OEt
amino acid	acyl	Br	NH ₂	O-cyclopropyl
amino acid	acyl	Br	NH ₂	O-acetyl
amino acid	acyl	Br	NH ₂	SH
amino acid	acyl	Br	NH ₂	SMe
amino acid	acyl	Br	NH ₂	SEt
amino acid	acyl	Br	NH ₂	S-cyclopropyl
amino acid	acyl	Br	NH ₂	F
amino acid	acyl	Br	NH ₂	Cl
amino acid	acyl	Br	NH ₂	Br
amino acid	acyl	Br	NH ₂	I
acyl	H	CI	NH ₂	Н
acyl	H	Cl	NH ₂	NH ₂
acyl	Н	Cl	NH ₂	NH-cyclopropyl
acyl	Н	CI	NH ₂	NH-methyl
acyl	Н	Cl	NH ₂	NH-ethyl
acyl	H	Cl	NH ₂	NH-acetyl
acyl	H	Cl	NH ₂	ОН
acyl	H	Cl	NH ₂	OMe
acyl	Н	Cl	NH ₂	OEt
acyl	H	Cl	NH ₂	O-cyclopropyl
acyl	Н	Cl	NH ₂	O-acetyl
acyl	H	Cl	NH ₂	SH
acyl	H	Cl	NH ₂	SMe
acyl	H	Cl	NH ₂	SEt
acyl	H	Cl	NH ₂	S-cyclopropyl
acyl	H	Cl	NH ₂	F
acyl	H	Cl	NH ₂	Cl
acyl	<u>H</u>	C1	NH ₂	Br
acyl	Н	Cl	NH ₂	I
acyl	acyl	Cl	NH ₂	H
acyl	acyl	Cl	NH ₂	NH ₂
acyl	acyl	Cl	NH ₂	NH-cyclopropyl
acyl	acyl	Cl	NH ₂	NH-methyl
acyl	acyl	Cl	NH ₂	NH-ethyl
acyl	acyl	Cl	NH ₂	NH-acetyl
acyl	acyl	Cl	NH ₂	ОН
acyl	acyl	Cl	NH ₂	OMe
acyl	acyl	Cl	NH ₂	OEt
acyl	acyl	Cl	NH ₂	O-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	acyl	Cl	NH ₂	O-acetyl
acyl	acyl	Cl	NH ₂	SH
acyl	acyl	Cl	NH ₂	SMe
acyl	acyl	Cl	NH ₂	SEt
acyl	acyl	Cl	NH ₂	S-cyclopropyl
acyl	acyl	Cl	NH ₂	F
acyl	acyl	Cl	NH ₂	Cl
acyl	acyl	Cl	NH ₂	Br
acyl	acyl	Cl	NH ₂	I
acyl	amino acid	Cl	NH ₂	H
acyl	amino acid	Cl	NH ₂	NH ₂
acyl	amino acid	Cl	NH ₂	NH-cyclopropyl
acyl	amino acid	Cl	NH ₂	NH-methyl
acyl	amino acid	Cl	NH ₂	NH-ethyl
acyl	amino acid	Cl	NH ₂	NH-acetyl
acyl	amino acid	Cl	NH ₂	OH
acyl	amino acid	Cl	NH ₂	OMe
acyl	amino acid	Cl	NH ₂	OEt
acyl	amino acid	C1	NH ₂	O-cyclopropyl
acyl	amino acid	Cl	NH ₂	O-acetyl
acyl	amino acid	Cl	NH ₂	SH
acyl	amino acid	Cl	NH ₂	SMe
acyl	amino acid	Cl	NH ₂	SEt
acyl	amino acid	Cl	NH ₂	S-cyclopropyl
acyl	amino acid	Cl	NH ₂	F
acyl	amino acid	Cl	NH ₂	Cl
acyl	amino acid	CI	NH ₂	Br
acyl	amino acid	CI	NH ₂	I
Н	acyl	Cl	NH ₂	Н
H	acyl	C1	NH ₂	NH ₂
H	acyl	Cl	NH ₂	NH-cyclopropyl
H	acyl	Cl	NH ₂	NH-methyl
H	acyl	Cl	NH ₂	NH-ethyl
H	acyl	Cl	NH ₂	NH-acetyl
H	acyl	Cl	NH ₂	ОН
H	acyl	CI	NH ₂	OMe
H	acyl	Cl	NH ₂	OEt
Н	acyl	C1	NH ₂	O-cyclopropyl
Н	acyl	Cl	NH ₂	O-acetyl
Н	acyl	Cl	NH ₂	SH
Н	acyl	Cl	NH ₂	SMe
H	acyl	Cl	NH ₂	SEt
Н	acyl	Cl	NH ₂	S-cyclopropyl
H	acyl	Cl	NH ₂	F
Н	acyl	CI	NH ₂	Cl
				
Н	acyl	Cl	NH_2	Br

\mathbb{R}^2	R ³	X ¹	X ²	Y
Н	amino acid	CI	NH ₂	H
Н	amino acid	CI	NH ₂	NH ₂
H	amino acid	Cl	NH ₂	NH-cyclopropyl
H	amino acid	Cl	NH ₂	NH-methyl
H	amino acid	Cl	NH ₂	NH-ethyl
Н	amino acid	Cl	NH ₂	NH-acetyl
Н	amino acid	Cl	NH ₂	ОН
H	amino acid	Cl	NH ₂	OMe
H	amino acid	Cl	NH ₂	OEt
H	amino acid	Cl	NH ₂	O-cyclopropyl
H	amino acid	Cl	NH ₂	O-acetyl
H	amino acid	Cl	NH ₂	SH
Н	amino acid	CI	NH ₂	SMe
Н	amino acid	Cl	NH ₂	SEt
H	amino acid	Cl	NH ₂	S-cyclopropyl
H	amino acid	Cl	NH ₂	F
H	amino acid	Cl	NH ₂	Cl
H	amino acid	Cl	NH ₂	Br
H	amino acid	Cl	NH ₂	I
amino acid	amino acid	Cl	NH ₂	H
amino acid	amino acid	Cl	NH ₂	NH ₂
amino acid	amino acid	Cl	NH ₂	NH-cyclopropyl
amino acid	amino acid	Cl	NH ₂	NH-methyl
amino acid	amino acid	Cl	NH ₂	NH-ethyl
amino acid	amino acid	Cl	NH ₂	NH-acetyl
amino acid	amino acid	Cl	NH ₂	OH
amino acid	amino acid	Cl	NH ₂	OMe
amino acid	amino acid	CI	NH ₂	OEt
amino acid	amino acid	Cl	NH ₂	O-cyclopropyl
amino acid	amino acid	Cl	NH ₂	O-cyclopropyr O-acetyl
amino acid	amino acid	Cl	NH ₂	SH
amino acid	amino acid	Cl	NH ₂	SMe
amino acid	amino acid	CI		SEt
amino acid	amino acid	CI	NH ₂	
amino acid	amino acid	CI	NH ₂	S-cyclopropyl F
amino acid	amino acid	CI		Cl
amino acid	amino acid	CI	NH ₂	
amino acid			NH ₂	Br
amino acid	amino acid	Cl	NH ₂	I
amino acid	H	Cl	NH ₂	H
		Cl	NH ₂	NH ₂
amino acid	H	Cl	NH ₂	NH-cyclopropyl
amino acid	H	Cl	NH ₂	NH-methyl
amino acid	H	Cl	NH ₂	NH-ethyl
amino acid	H	Cl	NH ₂	NH-acetyl
amino acid	H	Cl	NH ₂	OH
amino acid	H	Cl	NH ₂	OMe
amino acid	H	Cl	NH ₂	OEt

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
amino acid	Н	Cl	NH ₂	O-cyclopropyl
amino acid	H	Cl	NH ₂	O-acetyl
amino acid	Н	Cl	NH ₂	SH
amino acid	Н	Cl	NH ₂	SMe
amino acid	Н	Cl	NH ₂	SEt
amino acid	Н	CI	NH ₂	S-cyclopropyl
amino acid	H	Cl	NH ₂	F
amino acid	H	Cl	NH ₂	Cl
amino acid	H	Cl	NH ₂	Br
amino acid	H	Cl	NH ₂	I
amino acid	acyl	Cl	NH ₂	H
amino acid	acyl	Cl	NH ₂	NH ₂
amino acid	acyl	Cl	NH ₂	NH-cyclopropyl
amino acid	acyl	Cl	NH ₂	NH-methyl
amino acid	acyl	Cl	NH ₂	NH-ethyl
amino acid	acyl	Cl	NH ₂	NH-acetyl
amino acid	acyl	Cl	NH ₂	OH
amino acid	acyl	Cl	NH ₂	OMe
amino acid	acyl	Cl	NH ₂	OEt
amino acid	acyl	Cl	NH ₂	O-cyclopropyl
amino acid	acyl	Cl	NH ₂	O-acetyl
amino acid	acyl	Cl	NH ₂	SH
amino acid	acyl	Cl	NH ₂	SMe
amino acid	acyl	Cl	NH ₂	SEt
amino acid	acyl	CI	NH ₂	S-cyclopropyl
amino acid	acyl	Cl	NH ₂	F S-cyclopropyr
amino acid	acyl	Cl	NH ₂	Cl
amino acid	acyl	Cl	NH ₂	Br
amino acid	acyl	Cl	NH ₂	I
acyl	H	F	NH ₂	H
	H	F		NH ₂
acyl	H	F	NH ₂	-L
acyl	H	F	NH ₂	NH-cyclopropyl
acyl			NH ₂	NH-methyl
acyl	H	F	NH ₂	NH-ethyl
acyl	H	F	NH ₂	NH-acetyl
acyl	H	F	NH ₂	OH
acyl	H	F	NH ₂	OMe
acyl	H	F	NH ₂	OEt
acyl	H	F	NH ₂	O-cyclopropyl
acyl	H	F	NH ₂	O-acetyl
acyl	H	F	NH ₂	SH
acyl	H	F	NH ₂	SMe
acyl	H	F	NH ₂	SEt
acyl	H	F	NH ₂	S-cyclopropyl
acyl	H	F	NH ₂	F
acyl	H	F	NH ₂	Cl
acyl	H	F	NH_2	Br

\mathbb{R}^2	\mathbb{R}^3	X^1	X ²	Y
acyl	Н	F	NH ₂	I
acyl	acyl	F	NH ₂	H
acyl	acyl	F	NH ₂	NH ₂
acyl	acyl	F	NH ₂	NH-cyclopropyl
acyl	acyl	F	NH ₂	NH-methyl
acyl	acyl	F	NH ₂	NH-ethyl
acyl	acyl	F	NH ₂	NH-acetyl
acyl	acyl	F	NH ₂	ОН
acyl	acyl	F	NH ₂	OMe
acyl	acyl	F	NH ₂	OEt
acyl	acyl	F	NH ₂	O-cyclopropyl
acyl	acyl	F	NH ₂	O-acetyl
acyl	acyl	F	NH ₂	SH
acyl	acyl	F	NH ₂	SMe
acyl	acyl	F	NH ₂	SEt
acyl	acyl	F	NH ₂	S-cyclopropyl
acyl	acyl	F	NH ₂	F
acyl	acyl	F	NH ₂	CI
acyl	acyl	F	NH ₂	Br
acyl	acyl	F	NH ₂	1 I
acyl	amino acid	F	NH ₂	H
acyl	amino acid	F	NH ₂	NH ₂
acyl	amino acid	F	NH ₂	NH-cyclopropyl
acyl	amino acid	F	NH ₂	NH-methyl
acyl	amino acid	F	NH ₂	NH-ethyl
acyl	amino acid	F	NH ₂	NH-acetyl
acyl	amino acid	F	NH ₂	OH
acyl	amino acid	F	NH ₂	OMe
acyl	amino acid	F	NH ₂	OEt
acyl	amino acid	F	NH ₂	O-cyclopropyl
acyl	amino acid	F	NH ₂	O-acetyl
acyl	amino acid	F	NH ₂	SH
acyl	amino acid	F	NH ₂	SMe
acyl	amino acid	F	NH ₂	SEt
acyl	amino acid	F	NH ₂	S-cyclopropyl
acyl	amino acid	F	NH ₂	F
acyl	amino acid	F	NH ₂	Cl
acyl	amino acid	F	NH ₂	Br
acyl	amino acid	F	NH ₂	I
H	acyl	F	NH ₂	Н
H	acyl	F	NH ₂	NH ₂
H	acyl	F	NH ₂	NH-cyclopropyl
Н	acyl	F	NH ₂	NH-methyl
Н	acyl	F	NH ₂	NH-ethyl
H	acyl	F	NH ₂	NH-acetyl
Н	acyl	F	NH ₂	OH
H	acyl	F	NH ₂	OMe

H	o ozvil	$\mathbf{X}^{\mathbf{I}}$		Y
TT	acyl	F	NH ₂	OEt
H	acyl	F	NH ₂	O-cyclopropyl
Н	acyl	F	NH ₂	O-acetyl
H	acyl	F	NH ₂	SH
H	acyl	F	NH ₂	SMe
Н	acyl	F	NH ₂	SEt
Н	acyl	F	NH ₂	S-cyclopropyl
H	acyl	F	NH ₂	F
Н	acyl	F	NH ₂	Cl
H	acyl	F	NH ₂	Br
Н	acyl	F	NH ₂	I
H	amino acid	F	NH ₂	Н
H	amino acid	F	NH ₂	NH ₂
Н	amino acid	F	NH ₂	NH-cyclopropyl
Н	amino acid	F	NH ₂	NH-methyl
H	amino acid	F	NH ₂	NH-ethyl
Н	amino acid	F	NH ₂	NH-acetyl
Н	amino acid	F	NH ₂	ОН
H	amino acid	F	NH ₂	OMe
Н	amino acid	F	NH ₂	OEt
H	amino acid	F	NH ₂	O-cyclopropyl
H	amino acid	F	NH ₂	O-acetyl
Н	amino acid	F	NH ₂	SH
H	amino acid	F	NH ₂	SMe
H	amino acid	F	NH ₂	SEt
Н	amino acid	F	NH ₂	S-cyclopropyl
H	amino acid	F	NH ₂	F
Н	amino acid	F	NH ₂	Cl
H	amino acid	F	NH ₂	Br
Н	amino acid	F	NH ₂	I
amino acid	amino acid	F	NH ₂	H
amino acid	amino acid	F	NH ₂	NH ₂
amino acid	amino acid	F	NH ₂	NH-cyclopropyl
amino acid	amino acid	F	NH ₂	NH-methyl
amino acid	amino acid	F	NH ₂	NH-ethyl
amino acid	amino acid	F	NH ₂	NH-acetyl
amino acid	amino acid	F	NH ₂	OH
amino acid	amino acid	F	NH ₂	OMe
amino acid	amino acid	F	NH ₂	OEt
amino acid	amino acid	F	NH ₂	O-cyclopropyl
amino acid	amino acid	F	NH ₂	O-acetyl
amino acid	amino acid	F	NH ₂	SH
amino acid	amino acid	F	NH ₂	SMe
amino acid	amino acid	F	NH ₂	SEt
amino acid	amino acid	F	NH ₂	S-cyclopropyl
amino acid	amino acid	F	NH ₂	F
	amino acid	F	NH ₂	Cl

\mathbb{R}^2	R ³	$\mathbf{X}^{\mathbf{I}}$	X ²	Y
amino acid	amino acid	F	NH ₂	Br
amino acid	amino acid	F	NH ₂	I
amino acid	Н	F	NH ₂	H
amino acid	Н	F	NH ₂	NH ₂
amino acid	H	F	NH ₂	NH-cyclopropyl
amino acid	H	F	NH ₂	NH-methyl
amino acid	Н	F	NH ₂	NH-ethyl
amino acid	H	F	NH ₂	NH-acetyl
amino acid	H	F	NH ₂	OH
amino acid	Н	F	NH ₂	OMe
amino acid	H	F	NH ₂	OEt
amino acid	H	F	NH ₂	O-cyclopropyl
amino acid	- 1	F	NH ₂	O-acetyl
amino acid	H	F	NH ₂	SH
amino acid	H	F	NH ₂	SMe
amino acid	H	F	NH ₂	SEt
amino acid	H	F	NH ₂	S-cyclopropyl
amino acid	H	F	NH ₂	F
amino acid	H	F	NH ₂	Cl
amino acid	H	F	NH ₂	Br
amino acid	$-\frac{H}{H}$	F	NH ₂	I
amino acid	acyl	F	NH ₂	H
amino acid	acyl	F	NH ₂	NH ₂
amino acid	acyl	F	NH ₂	NH-cyclopropyl
amino acid	acyl	F	NH ₂	NH-methyl
amino acid	acyl	F	NH ₂	NH-ethyl
amino acid	acyl	F	NH ₂	NH-acetyl
amino acid	acyl	F	NH ₂	OH
amino acid	acyl	F	NH ₂	OMe
amino acid	acyl	F	NH ₂	OEt
amino acid	acyl	F	NH ₂	O-cyclopropyl
amino acid	acyl	F	NH ₂	O-acetyl
amino acid	acyl	F	NH ₂	SH
amino acid	acyl	F	NH ₂	SMe
amino acid	acyl	F	NH ₂	SEt
amino acid	acyl	F	NH ₂	S-cyclopropyl
amino acid	acyl	F	$\frac{NH_2}{NH_2}$	F
amino acid	acyl	F	NH ₂	Cl
amino acid	acyl	F	NH ₂	Br
amino acid	acyl	$\frac{F}{F}$	_+	I
acyl	H		NH ₂	H
acyl	H	NH ₂	NH ₂	
		NH ₂	NH ₂	NH ₂
acyl	H	NH ₂	NH ₂	NH-cyclopropyl
acyl	H	NH ₂	NH ₂	NH-methyl
acyl	H	NH ₂	NH ₂	NH-ethyl
acyl	H	NH ₂	NH ₂	NH-acetyl
acyl	H	NH ₂	NH ₂	OH

\mathbb{R}^2	R ³	$\mathbf{X}^{\mathbf{I}}$	X ²	Y
acyl	Н	NH ₂	NH ₂	OMe
acyl	H	NH ₂	NH ₂	OEt
acyl	H	NH ₂	NH ₂	O-cyclopropyl
acyl	H	NH ₂	NH ₂	O-acetyl
acyl	H	NH ₂	NH ₂	SH
acyl	H	NH ₂	NH ₂	SMe
acyl	H	NH ₂	NH ₂	SEt
acyl	H	NH ₂	NH ₂	S-cyclopropyl
acyl	Н	NH ₂	NH ₂	F
acyl	Н	NH ₂	NH ₂	Cl
acyl	H	NH ₂	NH ₂	Br
acyl	Н	NH ₂	NH ₂	I
acyl	acyl	NH ₂	NH ₂	Н
acyl	acyl	NH ₂	NH ₂	NH ₂
acyl	acyl	NH ₂	NH ₂	NH-cyclopropyl
acyl	acyl	NH ₂	NH ₂	NH-methyl
acyl	acyl	NH ₂	NH ₂	NH-ethyl
acyl	acyl	NH ₂	NH ₂	NH-acetyl
acyl	acyl	NH ₂	NH ₂	OH
acyl	acyl	NH ₂	NH ₂	OMe
acyl	acyl	NH ₂	NH ₂	OEt
acyl	acyl	NH ₂	NH ₂	O-cyclopropyl
acyl	acyl	NH ₂	NH ₂	O-acetyl
acyl	acyl	NH ₂	NH ₂	SH
acyl	acyl	NH ₂	NH ₂	SMe
acyl	acyl	NH ₂	NH ₂	SEt
acyl	acyl	NH ₂	NH ₂	S-cyclopropyl
acyl	acyl	NH ₂	NH ₂	F
acyl	acyl	NH ₂	NH ₂	Cl
acyl	acyl	NH ₂	NH ₂	Br
acyl	acyl	NH ₂	NH ₂	I
acyl	amino acid	NH ₂	NH ₂	Н
acyl	amino acid	NH ₂	NH ₂	NH ₂
acyl	amino acid	NH ₂	NH ₂	NH-cyclopropyl
acyl	amino acid	NH ₂	NH ₂	NH-methyl
acyl	amino acid	NH ₂	NH ₂	NH-ethyl
acyl	amino acid	NH ₂	NH ₂	NH-acetyl
acyl	amino acid	NH ₂	NH ₂	ОН
acyl	amino acid	NH ₂	NH ₂	OMe
acyl	amino acid	NH ₂	NH ₂	OEt
acyl	amino acid	NH ₂	NH ₂	O-cyclopropyl
acyl	amino acid	NH ₂	NH ₂	O-acetyl
acyl	amino acid	NH ₂	NH ₂	SH
acyl	amino acid	NH ₂	NH ₂	SMe
acyl	amino acid	NH ₂	NH ₂	SEt
acyl	amino acid	NH ₂	NH ₂	S-cyclopropyl
acyl				

\mathbb{R}^2	\mathbb{R}^3	X¹	X ²	Y
acyl	amino acid	NH ₂	NH ₂	Cl
acyl	amino acid	NH ₂	NH ₂	Br
acyl	amino acid	NH ₂	NH ₂	I
H	acyl	NH ₂	NH ₂	H
H	acyl	NH ₂	NH ₂	NH ₂
Н	acyl	NH ₂	NH ₂	NH-cyclopropyl
H	acyl	NH ₂	NH ₂	NH-methyl
Н	acyl	NH ₂	NH ₂	NH-ethyl
H	acyl	NH ₂	NH ₂	NH-acetyl
H	acyl	NH ₂	NH ₂	OH
H	acyl	NH ₂	NH ₂	OMe
Н	acyl	NH ₂	NH ₂	OEt
Н	acyl	NH ₂	NH ₂	O-cyclopropyl
Н	acyl	NH ₂	NH ₂	O-acetyl
H	acyl	NH ₂	NH ₂	SH
Н	acyl	NH ₂	NH ₂	SMe
H	acyl	NH ₂	NH ₂	SEt
H	acyl	NH ₂	NH ₂	S-cyclopropyl
H	acyl	NH ₂	NH ₂	F
Н	acyl	NH ₂	NH ₂	Cl
H	acyl	NH ₂	NH ₂	Br
H	acyl	NH ₂	NH ₂	I
H	amino acid	NH ₂	NH ₂	H
H	amino acid	NH ₂	NH ₂	NH ₂
Н	amino acid	NH ₂	NH ₂	NH-cyclopropyl
H	amino acid	NH ₂	NH ₂	NH-methyl
H	amino acid	NH ₂	NH ₂	NH-ethyl
H	amino acid	NH ₂	NH ₂	NH-acetyl
H	amino acid	NH ₂	NH ₂	OH
H	amino acid	NH ₂	NH ₂	OMe
H	amino acid	NH ₂	NH ₂	OEt
Н	amino acid	NH ₂	NH ₂	O-cyclopropyl
H	amino acid	NH ₂	NH ₂	O-acetyl
H	amino acid	NH ₂	NH ₂	SH
H	amino acid	NH ₂	NH ₂	SMe
H	amino acid	NH ₂	NH ₂	SEt
Н	amino acid	NH ₂	NH ₂	S-cyclopropyl
H	amino acid	NH ₂	NH ₂	F
H	amino acid	NH ₂	NH ₂	Cl
H	amino acid	NH ₂	NH ₂	Br
H	amino acid	NH ₂	NH ₂	I
amino acid	amino acid	NH ₂	NH ₂	Н
amino acid	amino acid	NH ₂	NH ₂	NH ₂
amino acid	amino acid	NH ₂	NH ₂	NH-cyclopropyl
amino acid	amino acid	NH ₂	NH ₂	NH-methyl
amino acid	amino acid	NH ₂	NH ₂	NH-ethyl
amino acid	amino acid	NH ₂	NH ₂	NH-acetyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	amino acid	NH ₂	NH ₂	OH
amino acid	amino acid	NH ₂	NH ₂	OMe
amino acid	amino acid	NH ₂	NH ₂	OEt
amino acid	amino acid	NH ₂	NH ₂	O-cyclopropyl
amino acid	amino acid	NH ₂	NH ₂	O-acetyl
amino acid	amino acid	NH ₂	NH ₂	SH
amino acid	amino acid	NH ₂	NH ₂	SMe
amino acid	amino acid	NH ₂	NH ₂	SEt
amino acid	amino acid	NH ₂	NH ₂	S-cyclopropyl
amino acid	amino acid	NH ₂	NH ₂	F
amino acid	amino acid	NH ₂	NH ₂	Cl
amino acid	amino acid	NH ₂	NH ₂	Br
amino acid	amino acid	NH ₂	NH ₂	I
amino acid	Н	NH ₂	NH ₂	Н
amino acid	Н	NH ₂	NH ₂	NH ₂
amino acid	Н	NH ₂	NH ₂	NH-cyclopropyl
amino acid	Н	NH ₂	NH ₂	NH-methyl
amino acid	Н	NH ₂	NH ₂	NH-ethyl
amino acid	Н	NH ₂	NH ₂	NH-acetyl
amino acid	Н	NH ₂	NH ₂	OH
amino acid	Н	NH ₂	NH ₂	OMe
amino acid	H	NH ₂	NH ₂	OEt
amino acid	H	NH ₂	NH ₂	O-cyclopropyl
amino acid	H	NH ₂	NH ₂	O-acetyl
amino acid	H	NH ₂	NH ₂	SH
amino acid	H	NH ₂	NH ₂	SMe
amino acid	Н	NH ₂	NH ₂	SEt
amino acid	Н	NH ₂	NH ₂	S-cyclopropyl
amino acid	Н	NH ₂	NH ₂	F
amino acid	H	NH ₂	NH ₂	Cl
amino acid	H	NH ₂	NH ₂	Br
amino acid	H	NH ₂	NH ₂	I
amino acid	acyl	NH ₂	NH ₂	H
amino acid	acyl	NH ₂	NH ₂	NH ₂
amino acid	acyl	NH ₂	NH ₂	NH-cyclopropyl
amino acid	acyl	NH ₂	NH ₂	NH-methyl
amino acid	acyl	NH ₂	NH ₂	NH-ethyl
amino acid	acyl	NH ₂	NH ₂	NH-acetyl
amino acid	acyl	NH ₂	NH ₂	ОН
amino acid	acyl	NH ₂	NH ₂	OMe
amino acid	acyl	NH ₂	NH ₂	OEt
amino acid	acyl	NH ₂	NH ₂	O-cyclopropyl
amino acid	acyl	NH ₂	NH ₂	O-acetyl
amino acid	acyl	NH ₂	NH ₂	SH
amino acid	acyl	NH ₂	NH ₂	SMe
amino acid	acyl	NH ₂	NH ₂	SEt
amino acid	acyl	NH ₂	NH ₂	S-cyclopropyl

\mathbb{R}^2	R ³	X^1	X ²	Y
amino acid	acyl	NH ₂	NH ₂	F
amino acid	acyl	NH ₂	NH ₂	Cl
amino acid	acyl	NH ₂	NH ₂	Br
amino acid	acyl	NH ₂	NH ₂	I
acyl	H	SH	NH ₂	Н
acyl	H	SH	NH ₂	NH ₂
acyl	Н	SH	NH ₂	NH-cyclopropyl
acyl	Н	SH	NH ₂	NH-methyl
acyl	H	SH	NH ₂	NH-ethyl
acyl	H	SH	NH ₂	NH-acetyl
acyl	Н	SH	NH ₂	OH
acyl	H	SH	NH ₂	OMe
acyl	Н	SH	NH ₂	OEt
acyl	H	SH	NH ₂	O-cyclopropyl
acyl	H	SH	NH ₂	O-acetyl
acyl	Н	SH	NH ₂	SH
acyl	Н	SH	NH ₂	SMe
acyl	H	SH	NH ₂	SEt
acyl	H	SH	NH ₂	S-cyclopropyl
acyl	Н	SH	NH ₂	F
acyl	Н	SH	NH ₂	Cl
acyl	H	SH	NH ₂	Br
acyl	Н	SH	NH ₂	I
acyl	acyl	SH	NH ₂	H
acyl	acyl	SH	NH ₂	NH ₂
acyl	acyl	SH	NH ₂	NH-cyclopropyl
acyl	acyl	SH	NH ₂	NH-methyl
acyl	acyl	SH	NH ₂	NH-ethyl
acyl	acyl	SH	NH ₂	NH-acetyl
acyl	acyl	SH	NH ₂	ОН
acyl	acyl	SH	NH ₂	OMe
acyl	acyl	SH	NH ₂	OEt
acyl	acyl	SH	NH ₂	O-cyclopropyl
acyl	acyl	SH	NH ₂	O-acetyl
acyl	acyl	SH	NH ₂	SH
acyl	acyl	SH	NH ₂	SMe
acyl	acyl	SH	NH ₂	SEt
acyl	acyl	SH	NH ₂	S-cyclopropyl
acyl	acyl	SH ··	NH ₂	F
acyl	acyl	SH	NH ₂	Cl
acyl	acyl	SH	NH ₂	Br
acyl	acyl	SH	NH ₂	I
acyl	amino acid	SH	NH ₂	Н
acyl	amino acid	SH	NH ₂	NH ₂
acyl	amino acid	SH	NH ₂	NH-cyclopropyl
acyl	amino acid	SH	NH ₂	NH-methyl
acyl	amino acid	SH	NH ₂	NH-ethyl

R ²	R ³	X ¹	X ²	Y
acyl	amino acid	SH	NH ₂	NH-acetyl
acyl	amino acid	SH	NH ₂	OH
acyl	amino acid	SH	NH ₂	OMe
acyl	amino acid	SH	NH ₂	OEt
acyl	amino acid	SH	NH ₂	O-cyclopropyl
acyl	amino acid	SH	NH ₂	O-acetyl
acyl	amino acid	SH	NH ₂	SH
acyl	amino acid	SH	NH ₂	SMe
acyl	amino acid	SH	NH ₂	SEt
acyl	amino acid	SH	NH ₂	S-cyclopropyl
acyl	amino acid	SH	NH ₂	F
acyl	amino acid	SH	NH ₂	Cl
acyl	amino acid	SH	NH ₂	Br
acyl	amino acid	SH	NH ₂	I
H	acyl	SH	NH ₂	Н
H	acyl	SH	NH ₂	NH ₂
H	acyl	SH	NH ₂	NH-cyclopropyl
H	acyl	SH	NH ₂	NH-methyl
H	acyl	SH	NH ₂	NH-ethyl
Н	acyl	SH	NH ₂	NH-acetyl
H	acyl	SH	NH ₂	OH
H	acyl	SH	NH ₂	OMe
H	acyl	SH	NH ₂	OEt
H	acyl	SH	NH ₂	O-cyclopropyl
H	acyl	SH	NH ₂	O-acetyl
H	acyl	SH	NH ₂	SH
H	acyl	SH	NH ₂	SMe
Н	acyl	SH	NH ₂	SEt
H	acyl	SH	NH ₂	S-cyclopropyl
Н	acyl	SH	NH ₂	F
Н	acyl	SH	NH ₂	Cl
Н	acyl	SH	NH ₂	Br
H	acyl	SH	NH ₂	I
H	amino acid	SH	NH ₂	Н
Н	amino acid	SH	NH ₂	NH ₂
Н	amino acid	SH	NH ₂	NH-cyclopropyl
H	amino acid	SH	NH ₂	NH-methyl
H	amino acid	SH	NH ₂	NH-ethyl
H	amino acid	SH	NH ₂	NH-acetyl
H	amino acid	SH	NH ₂	ОН
H	amino acid	SH	NH ₂	OMe
H	amino acid	SH	NH ₂	OEt
Н	amino acid	SH	NH ₂	O-cyclopropyl
Н	amino acid	SH	NH ₂	O-acetyl
H	amino acid	SH	NH ₂	SH
Н	amino acid	SH	NH ₂	SMe
Н	amino acid	SH	NH ₂	SEt

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
H	amino acid	SH	NH ₂	S-cyclopropyl
H	amino acid	SH	NH ₂	F
H	amino acid	SH	NH ₂	Cl
Н	amino acid	SH	NH ₂	Br
H	amino acid	SH	NH ₂	I
amino acid	amino acid	SH	NH ₂	Н
amino acid	amino acid	SH	NH ₂	NH ₂
amino acid	amino acid	SH	NH ₂	NH-cyclopropyl
amino acid	amino acid	SH	NH ₂	NH-methyl
amino acid	amino acid	SH	NH ₂	NH-ethyl
amino acid	amino acid	SH	NH ₂	NH-acetyl
amino acid	amino acid	SH	NH ₂	OH
amino acid	amino acid	SH	NH ₂	OMe
amino acid	amino acid	SH	NH ₂	OEt
amino acid	amino acid	SH	NH ₂	O-cyclopropyl
amino acid	amino acid	SH	NH ₂	O-acetyl
amino acid	amino acid	SH	NH ₂	SH
amino acid	amino acid	SH	NH ₂	SMe
amino acid	amino acid	SH	NH ₂	SEt
amino acid	amino acid	SH	NH ₂	S-cyclopropyl
amino acid	amino acid	SH	NH ₂	F
amino acid	amino acid	SH	NH ₂	Cl
amino acid	amino acid	SH	NH ₂	Br
amino acid	amino acid	SH	NH ₂	I
amino acid	H	SH	NH ₂	Н
amino acid	H	SH	NH ₂	NH ₂
amino acid	Н	SH	NH ₂	NH-cyclopropyl
amino acid	H	SH	NH ₂	NH-methyl
amino acid	Н	SH	NH ₂	NH-ethyl
amino acid	H	SH	NH ₂	NH-acetyl
amino acid	<u>H</u>	SH	NH ₂	OH
amino acid	Н	SH	NH ₂	OMe
amino acid	H	SH	NH ₂	OEt
amino acid	H	SH	NH ₂	O-cyclopropyl
amino acid	H	SH	NH ₂	O-acetyl
amino acid	H	SH	NH ₂	SH
amino acid	H	SH	NH ₂	SMe
amino acid	Ĥ	SH	NH ₂	SEt
amino acid	H	SH	NH ₂	S-cyclopropyl
amino acid	H	SH	NH ₂	F
amino acid	H	SH	NH ₂	Cl
amino acid	H	SH	NH ₂	Br
amino acid	H	SH	NH ₂	I
amino acid	acyl	SH	NH ₂	H
amino acid	acyl	SH	NH ₂	NH ₂
amino acid	acyl	SH	NH ₂	NH-cyclopropyl
amino acid	acyl	SH	NH ₂	NH-methyl

R ²	\mathbb{R}^3	X¹	\mathbf{X}^2	Y
amino acid	acyl	SH	NH ₂	NH-ethyl
amino acid	acyl	SH	NH ₂	NH-acetyl
amino acid	acyl	SH	NH ₂	OH
amino acid	acyl	SH	NH ₂	OMe
amino acid	acyl	SH	NH ₂	OEt
amino acid	acyl	SH	NH ₂	O-cyclopropyl
amino acid	acyl	SH	NH ₂	O-acetyl
amino acid	acyl	SH	NH ₂	SH
amino acid	acyl	SH	NH ₂	SMe
amino acid	acyl	SH	NH ₂	SEt
amino acid	acyl	SH	NH ₂	S-cyclopropyl
amino acid	acyl	SH	NH ₂	F
amino acid	acyl	SH	NH ₂	CI
amino acid	acyl	SH	NH ₂	Br
amino acid	acyl	SH	NH ₂	I
acyl	H	OH	NH ₂	H
acyl	H	OH	NH ₂	NH ₂
acyl	H	OH	NH ₂	NH-cyclopropyl
acyl	H	OH	NH ₂	NH-methyl
acyl	H	OH	NH ₂	NH-ethyl
acyl	H	OH	NH ₂	NH-acetyl
acyl	H	OH	NH ₂	OH
acyl	H	OH	NH ₂	OMe
acyl	H	OH	NH ₂	OEt
acyl	H	OH	NH ₂	O-cyclopropyl
acyl	H	OH	NH ₂	O-acetyl
acyl	H	OH	NH ₂	SH
acyl	H	OH	NH ₂	SMe
acyl	H	OH	NH ₂	SEt
acyl	H	OH	NH ₂	S-cyclopropyl
acyl	H	OH	NH ₂	F S-cyclopropyr
acyl	Н	ОН	NH ₂	Cl
acyl	H	OH	NH ₂	Br
acyl	H	OH	NH ₂	I
acyl	acyl	OH	NH ₂	H
acyl	acyl	OH	NH ₂	NH ₂
acyl	acyl	OH	NH ₂	NH-cyclopropyl
acyl	acyl	OH	NH ₂	NH-methyl
acyl	acyl	OH	NH ₂	NH-ethyl
acyl	acyl	OH	NH ₂	NH-acetyl
acyl	acyl	OH	NH ₂	OH
acyl	acyl	OH	NH ₂	OMe
acyl	acyl	OH	NH ₂	OEt
acyl		OH		
	acyl		NH ₂	O-cyclopropyl
acyl	acyl	OH	NH ₂	O-acetyl
acyl	acyl	OH	NH ₂	SH
acyl	acyl	OH	NH ₂	SMe

R ²	R ³	\mathbf{X}^{1}	X ²	Y
acyl	acyl	OH	NH ₂	SEt
acyl	acyl	OH	NH ₂	S-cyclopropyl
acyl	acyl	OH	NH ₂	F
acyl	acyl	ОН	NH ₂	Cl
acyl	acyl	OH	NH ₂	Br
acyl	acyl	OH	NH ₂	I
acyl	amino acid	ОН	NH ₂	H
acyl	amino acid	ОН	NH ₂	NH ₂
acyl	amino acid	ОН	NH ₂	NH-cyclopropyl
acyl	amino acid	ОН	NH ₂	NH-methyl
acyl	amino acid	OH	NH ₂	NH-ethyl
acyl	amino acid	OH	NH ₂	NH-acetyl
acyl	amino acid	ОН	NH ₂	OH
acyl	amino acid	ОН	NH ₂	OMe
acyl	amino acid	ОН	NH ₂	OEt
acyl	amino acid	ОН	NH ₂	O-cyclopropyl
acyl	amino acid	OH	NH ₂	O-acetyl
acyl	amino acid	ОН	NH ₂	SH
acyl	amino acid	OH	NH ₂	SMe
acyl	amino acid	OH	NH ₂	SEt
acyl	amino acid	ОН	NH ₂	S-cyclopropyl
acyl	amino acid	OH	NH ₂	F
acyl	amino acid	OH	NH ₂	Cl
acyl	amino acid	OH	NH ₂	Br
acyl	amino acid	OH	NH ₂	I
H	acyl	ОН	NH ₂	Н
H	acyl	OH	NH ₂	NH ₂
H	acyl	OH	NH ₂	NH-cyclopropyl
Н	acyl	OH	NH ₂	NH-methyl
H	acyl	OH	NH ₂	NH-ethyl
H	acyl	OH	NH ₂	NH-acetyl
H	acyl	OH	NH ₂	OH
H	acyl	OH	NH ₂	OMe
H	acyl	OH	NH ₂	OEt
H	acyl	OH	NH ₂	O-cyclopropyl
H	acyl	OH	NH ₂	O-acetyl
H	acyl	OH	NH ₂	SH
H	acyl	OH	NH ₂	SMe
Н	acyl	ОН	NH ₂	SEt
H	acyl	ОН	NH ₂	S-cyclopropyl
H	acyl	OH	NH ₂	F
H	acyl	OH	NH ₂	CI
H	acyl	ОН	NH ₂	Br
H	acyl	OH	NH ₂	İ
H	amino acid	OH	NH ₂	Н
Н	amino acid	OH	NH ₂	NH ₂
Η .	amino acid	ОН	NH ₂	NH-cyclopropyl

R ²	R ³	X ¹	X ²	Y
Н	amino acid	OH	NH ₂	NH-methyl
H	amino acid	OH	NH ₂	NH-ethyl
H	amino acid	OH	NH ₂	NH-acetyl
H	amino acid	OH	NH ₂	OH
H	amino acid	ОН	NH ₂	OMe
H	amino acid	OH	NH ₂	OEt
H	amino acid	OH	NH ₂	O-cyclopropyl
Н	amino acid	ОН	NH ₂	O-acetyl
H	amino acid	ОН	NH ₂	SH
H	amino acid	ОН	NH ₂	SMe
H	amino acid	ОН	NH ₂	SEt
H	amino acid	ОН	NH ₂	S-cyclopropyl
H	amino acid	ОН	NH ₂	F
H	amino acid	ОН	NH ₂	Cl
Н	amino acid	ОН	NH ₂	Br
Н	amino acid	OH	NH ₂	I
amino acid	amino acid	ОН	NH ₂	H
amino acid	amino acid	OH	NH ₂	NH ₂
amino acid	amino acid	ОН	NH ₂	NH-cyclopropyl
amino acid	amino acid	ОН	NH ₂	NH-methyl
amino acid	amino acid	OH	NH ₂	NH-ethyl
amino acid	amino acid	ÓН	NH ₂	NH-acetyl
amino acid	amino acid	OH	NH ₂	OH
amino acid	amino acid	OH	NH ₂	OMe
amino acid	amino acid	OH	NH ₂	OEt
amino acid	amino acid	OH	NH ₂	O-cyclopropyl
amino acid	amino acid	OH	NH ₂	O-acetyl
amino acid	amino acid	OH	NH ₂	SH
amino acid	amino acid	OH	NH ₂	SMe
amino acid	amino acid	OH	NH ₂	SEt
amino acid	amino acid	OH	NH ₂	S-cyclopropyl
amino acid	amino acid	OH	NH ₂	F
amino acid	amino acid	OH	NH ₂	Cl
amino acid	amino acid	OH	NH ₂	Br
amino acid	amino acid	OH	NH ₂	I
amino acid	Н	OH	NH ₂	Н
amino acid	H	OH	NH ₂	NH ₂
amino acid	Н	ОН	NH ₂	NH-cyclopropyl
amino acid	H = 1	ОН	NH ₂	NH-methyl
amino acid	Н	OH	NH ₂	NH-ethyl
amino acid	Н	OH	NH ₂	NH-acetyl
amino acid	Н	ОН	NH ₂	ОН
amino acid	Н	ОН	NH ₂	OMe
amino acid	Н	OH	NH ₂	OEt
amino acid	Н	OH	NH ₂	O-cyclopropyl
amino acid	Н	ОН	NH ₂	O-acetyl
,				i

R ²	R ³	X	X ²	Y
amino acid	Н	OH	NH ₂	SMe
amino acid	Н	ОН	NH ₂	SEt
amino acid	Н	OH	NH ₂	S-cyclopropyl
amino acid	Н	OH	NH ₂	F
amino acid	Н	OH	NH ₂	Cl
amino acid	H	OH	NH ₂	Br
amino acid	H	OH	NH ₂	I
amino acid	acyl	OH	NH ₂	Н
amino acid	acyl	OH	NH ₂	NH ₂
amino acid	acyl	OH	NH ₂	NH-cyclopropyl
amino acid	acyl	ОН	NH ₂	NH-methyl
amino acid	acyl	ОН	NH ₂	NH-ethyl
amino acid	acyl	OH	NH ₂	NH-acetyl
amino acid	acyl	ОН	NH ₂	OH
amino acid	acyl	OH	NH ₂	OMe
amino acid	acyl	ОН	NH ₂	OEt
amino acid	acyl	OH	NH ₂	O-cyclopropyl
amino acid	acyl	OH	NH ₂	O-acetyl
amino acid	acyl	ОН	NH ₂	SH
amino acid	acyl	ОН	NH ₂	SMe
amino acid	acyl	ОН	NH ₂	SEt
amino acid	acyl	OH	NH ₂	S-cyclopropyl
amino acid	acyl	OH	NH ₂	F
amino acid	acyl	OH	NH ₂	Cl
amino acid	acyl	OH	NH ₂	Br
amino acid	acyl	OH	NH ₂	I
acyl	H	CH ₃	SH	H
acyl	Н	CH ₃	SH	NH ₂
acyl	H	CH ₃	SH	NH-cyclopropyl
acyl	Н	CH ₃	SH	NH-methyl
acyl	H	CH ₃	SH	NH-ethyl
acyl	H	CH ₃	SH	NH-acetyl
acyl	H	CH ₃	SH	OH
acyl	H	CH ₃	SH	OMe
acyl	H	CH ₃	SH	OEt
acyl	Н	CH ₃	SH	O-cyclopropyl
acyl	H	CH ₃	SH	O-acetyl
acyl	Н	CH ₃	SH	SH
acyl	Н	CH ₃	SH	SMe
acyl	Н	CH ₃	SH	SEt
acyl	Н	CH ₃	SH	S-cyclopropyl
acyl	Н	CH ₃	SH	F
acyl	H	CH ₃	SH	Cl
acyl	H	CH ₃	SH	Br
acyl	Н	CH ₃	SH	I
acyl	acyl	CH ₃	SH	H
	acyl	CH ₃	SH	NH ₂

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	acyl	CH ₃	SH	NH-cyclopropyl
acyl	acyl	CH ₃	SH	NH-methyl
acyl	acyl	CH ₃	SH	NH-ethyl
acyl	acyl	CH ₃	SH	NH-acetyl
acyl	acyl	CH ₃	SH	OH
acyl	acyl	CH ₃	SH	OMe
acyl	acyl	CH ₃	SH	OEt
acyl	acyl	CH ₃	SH	O-cyclopropyl
acyl	acyl	CH ₃	SH	O-acetyl
acyl	acyl	CH ₃	SH	SH
acyl	acyl	CH ₃	SH	SMe
acyl	acyl	CH ₃	SH	SEt
acyl	acyl	CH ₃	SH	S-cyclopropyl
acyl	acyl	CH ₃	SH	F
acyl	acyl	CH ₃	SH	Cl
acyl	acyl	CH ₃	SH	Br
acyl	acyl	CH ₃	SH	Ι
acyl	amino acid	CH ₃	SH	Н
acyl	amino acid	CH ₃	SH	NH ₂
acyl	amino acid	CH ₃	SH	NH-cyclopropyl
acyl	amino acid	CH ₃	SH	NH-methyl
acyl	amino acid	CH ₃	SH	NH-ethyl
acyl	amino acid	CH ₃	SH	NH-acetyl
acyl	amino acid	CH ₃	SH	OH
acyl	amino acid	CH ₃	SH	OMe
acyl	amino acid	CH ₃	SH	OEt
acyl	amino acid	CH ₃	SH	O-cyclopropyl
acyl	amino acid	CH ₃	SH	O-acetyl
acyl	amino acid	CH ₃	SH	SH
acyl	amino acid	CH ₃	SH	SMe
acyl	amino acid	CH ₃	SH	SEt
acyl	amino acid	CH ₃	SH	S-cyclopropyl
acyl	amino acid	CH₃	SH	F
acyl	amino acid	CH ₃	SH	Cl
acyl	amino acid	CH ₃	SH	Br
acyl	amino acid	CH ₃	SH	I
H	acyl	CH ₃	SH	Н
H	acyl	CH ₃	SH	NH ₂
H	acyl	CH ₃	SH	NH-cyclopropyl
H	acyl	CH ₃	SH	NH-methyl
H	acyl	CH ₃	SH	NH-ethyl
H	acyl	CH ₃	SH	NH-acetyl
H	acyl	CH ₃	SH	OH
H	acyl	CH ₃	SH	OMe
H	acyl	CH ₃	SH	OEt
H	acyl	CH ₃	SH	O-cyclopropyl
H	acyl	CH ₃	SH	O-acetyl

R ²	R ³	X	X ²	Y
H	acyl	CH ₃	SH	SH
Н	acyl	CH ₃	SH	SMe
Н	acyl	CH ₃	SH	SEt
H	acyl	CH ₃	SH	S-cyclopropyl
H	acyl	CH ₃	SH	F
H	acyl	CH ₃	SH	Cl
H	acyl	CH ₃	SH	Br
H	acyl	CH ₃	SH	I
H	amino acid	CH ₃	SH	Н
H	amino acid	CH ₃	SH	NH ₂
H	amino acid	CH ₃	SH	NH-cyclopropyl
H	amino acid	CH₃	SH	NH-methyl
H	amino acid	CH ₃	SH	NH-ethyl
H	amino acid	CH ₃	SH	NH-acetyl
H	amino acid	CH ₃	SH	OH
H	amino acid	CH ₃	SH	OMe
H	amino acid	CH ₃	SH	OEt
H	amino acid	CH ₃	SH	O-cyclopropyl
H	amino acid	CH ₃	SH	O-acetyl
H	amino acid	CH ₃	SH	SH
Н	amino acid	CH ₃	SH	SMe
H	amino acid	CH ₃	SH	SEt
Н	amino acid	CH ₃	SH	S-cyclopropyl
H	amino acid	CH ₃	SH	F
H	amino acid	CH ₃	SH	Cl
Н	amino acid	CH ₃	SH	Br
H	amino acid	CH ₃	SH	I
amino acid	amino acid	CH ₃	SH	H
amino acid	amino acid	CH ₃	SH	NH ₂
amino acid	amino acid	CH ₃	SH	NH-cyclopropyl
amino acid	amino acid	CH ₃	SH	NH-methyl
amino acid	amino acid	CH ₃	SH	NH-ethyl
amino acid	amino acid	CH ₃	SH	NH-acetyl
amino acid	amino acid	CH ₃	SH	OH
amino acid	amino acid	CH ₃	SH	OMe
amino acid	amino acid	CH ₃	SH	OEt
amino acid	amino acid	CH ₃	SH	O-cyclopropyl
amino acid	amino acid	CH ₃	SH	O-acetyl
amino acid	amino acid	CH ₃	SH	SH
amino acid	amino acid	CH ₃	SH	SMe
amino acid	amino acid	CH ₃	SH	SEt
amino acid	amino acid	CH ₃	SH	S-cyclopropyl
amino acid	amino acid	CH ₃	SH	F
amino acid	amino acid	CH ₃	SH	Cl
amino acid	amino acid	CH ₃	SH	Br
amino acid	amino acid	CH ₃	SH	I
amino acid	Н	CH ₃	SH	Н

amino acid H CH3 SH NH-methyl amino acid H CH3 SH NH-acetyl amino acid H CH3 SH NH-acetyl amino acid H CH3 SH OMe amino acid H CH3 SH OMe amino acid H CH3 SH OEt amino acid H CH3 SH OEt amino acid H CH3 SH OEt amino acid H CH3 SH O-cyclopropyl amino acid H CH3 SH O-acetyl amino acid H CH3 SH SH SH SH amino acid H CH3 SH SH SH SEt amino acid H CH3 SH SET Amino acid H CH3 SH SET Amino acid H CH3 SH SH SET Amino acid H CH3 SH SH SET Amino acid H CH3 SH SH CI Amino acid H CH3 SH SH SH SH Amino acid H CH3 SH SH CI Amino acid H CH3 SH SH SH SH Amino acid Acyl CH3 SH SH SH SH Amino acid Acyl CH3 SH	R ²	R ³	X^1 X^2	Y
amino acid H CH3 SH NH-methyl amino acid H CH3 SH NH-acetyl amino acid H CH3 SH NH-acetyl amino acid H CH3 SH OME amino acid H CH3 SH OME amino acid H CH3 SH OEt amino acid H CH3 SH O-cyclopropyl amino acid H CH3 SH O-cyclopropyl amino acid H CH3 SH SH O-acetyl amino acid H CH3 SH SH SH O-acetyl amino acid H CH3 SH SH SEt amino acid H CH3 SH SEt SET SH	amino acid	Н	CH ₃ SH	NH ₂
amino acid H CH3 SH NH-methyl amino acid H CH3 SH NH-ethyl amino acid H CH3 SH NH-acetyl amino acid H CH3 SH OH amino acid H CH3 SH SH amino acid H CH3 SH SH amino acid H CH3 SH SH amino acid H CH3 SH F amino acid H CH3 SH F amino acid H CH3 SH F amino acid acyl CH3 SH NH-ethyl amino acid acyl CH3 SH N	amino acid	Н	CH ₃ SH	NH-cyclopropyl
amino acid H CH3 SH NH-ethyl amino acid H CH3 SH OH OH amino acid H CH3 SH OH OMe amino acid H CH3 SH OEt amino acid H CH3 SH OEt amino acid H CH3 SH O-cyclopropyl amino acid H CH3 SH O-acetyl amino acid H CH3 SH O-acetyl amino acid H CH3 SH SH SH Amino acid H CH3 SH SH SH SH Amino acid H CH3 SH SH SEt amino acid H CH3 SH SET SET SH	amino acid	Н	CH ₃ SH	
amino acid H CH3 SH OH amino acid H CH3 SH OMe amino acid H CH3 SH OMe amino acid H CH3 SH OEt amino acid H CH3 SH O-cyclopropyl amino acid H CH3 SH O-cyclopropyl amino acid H CH3 SH SH O-acetyl amino acid H CH3 SH SH amino acid H CH3 SH SH amino acid H CH3 SH SEt amino acid H CH3 SH SEt amino acid H CH3 SH S-cyclopropyl amino acid H CH3 SH SEt amino acid H CH3 SH SE amino acid H CH3 SH SH CI amino acid H CH3 SH SF amino acid H CH3 SH Br amino acid H CH3 SH I amino acid H CH3 SH I amino acid ACH CH3 SH NH2 amino acid ACH CH3 SH NH-cycloprop amino acid ACH CH3 SH NH-ethyl amino acid ACH CH3 SH NH-ethyl amino acid ACH CH3 SH NH-ethyl amino acid ACH CH3 SH OH amino acid ACH CH3 SH O-cyclopropyl amino acid ACH CH3 SH O-acetyl amino acid ACH CH3 SH SH amino acid ACH CH3 SH SET amino ACH ACH CH3 SH SH amino ACH ACH CH3 SH SET amino ACH ACH CH3 SH SET amino ACH ACH CH3 SH SET amino ACH ACH CH3 SH SH SET AMINO AC	amino acid	Н		
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acyl H CF ₃ SH OH				
acyl H CF ₃ SH OMe				
acyl H CF ₃ SH OEt				
				O-cyclopropyl

R ²	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
acyl	Н	CF ₃	SH	O-acetyl
acyl	H	CF ₃	SH	SH
acyl	Н	CF ₃	SH	SMe
acyl	H	CF ₃	SH	SEt
acyl	Н	CF ₃	SH	S-cyclopropyl
acyl	Н	CF ₃	SH	F
acyl	Н	CF ₃	SH	Cl
acyl	Н	CF ₃	SH	Br
acyl	H	CF ₃	SH	I
acyl	acyl	CF ₃	SH	H
acyl	acyl	CF ₃	SH	NH ₂
acyl	acyl	CF ₃	SH	NH-cyclopropyl
acyl	acyl	CF ₃	SH	NH-methyl
acyl	acyl	CF ₃	SH	NH-ethyl
acyl	acyl	CF ₃	SH	NH-acetyl
acyl	acyl	CF ₃	SH	ОН
acyl	acyl	CF ₃	SH	OMe
acyl	acyl	CF ₃	SH	OEt
acyl	acyl	CF ₃	SH	O-cyclopropyl
acyl	acyl	CF ₃	SH	O-acetyl
acyl	acyl	CF ₃	SH	SH
acyl	acyl	CF ₃	SH	SMe
acyl	acyl	CF ₃	SH	SEt
acyl	acyl	CF ₃	SH	S-cyclopropyl
acyl	acyl	CF ₃	SH	F
acyl	acyl	CF ₃	SH	Cl
acyl	acyl	CF ₃	SH	Br
acyl	acyl	CF ₃	SH	I
acyl	amino acid	CF ₃	SH	Н
acyl	amino acid	CF ₃	SH	NH ₂
acyl	amino acid	CF ₃	SH	NH-cyclopropyl
acyl	amino acid	CF ₃	SH	NH-methyl
acyl	amino acid	CF ₃	SH	NH-ethyl
acyl	amino acid	CF ₃	SH	NH-acetyl
acyl	amino acid	CF ₃	SH	OH
acyl	amino acid	CF ₃	SH	OMe
acyl	amino acid	CF ₃	SH	OEt
acyl	amino acid	CF ₃	SH	O-cyclopropyl
acyl	amino acid	CF ₃	SH	O-acetyl
acyl	amino acid	CF ₃	SH	SH
acyl	amino acid	CF ₃	SH	SMe
acyl	amino acid	CF ₃	SH	SEt
acyl	amino acid	CF ₃	SH	S-cyclopropyl
acyl	amino acid	CF ₃	SH	F
acyl	amino acid	CF ₃	SH	CI
acyl	amino acid	CF ₃	SH	Br
acyl	amino acid	CF ₃	SH	I

R ²	R ³	X	X ²	Y
H	acyl	CF ₃	SH	Н
Н	acyl	CF ₃	SH	NH ₂
H	acyl	CF ₃	SH	NH-cyclopropyl
H	acyl	CF ₃	SH	NH-methyl
H	acyl	CF ₃	SH	NH-ethyl
Н	acyl	CF ₃	SH	NH-acetyl
Н	acyl	CF ₃	SH	OH
H	acyl	CF ₃	SH	OMe
H	acyl	CF ₃	SH	OEt
H	acyl	CF ₃	SH	O-cyclopropyl
Н	acyl	CF ₃	SH	O-acetyl
H	acyl	CF ₃	SH	SH
Н	acyl	CF ₃	SH	SMe
H	acyl	CF ₃	SH	SEt
H	acyl	CF ₃	SH	S-cyclopropyl
H	acyl	CF ₃	SH	F
Н	acyl	CF ₃	SH	Cl
Н	acyl	CF ₃	SH	Br
Н	acyl	CF ₃	SH	I
Н	amino acid	CF ₃	SH	Н
Н	amino acid	CF ₃	SH	NH ₂
H	amino acid	CF ₃	SH	NH-cyclopropyl
Н	amino acid	CF ₃	SH	NH-methyl
Н	amino acid	CF ₃	SH	NH-ethyl
H	amino acid	CF ₃	SH	NH-acetyl
H	amino acid	CF ₃	SH	ОН
H	amino acid	CF ₃	SH	OMe
Н	amino acid	CF ₃	SH	OEt
H	amino acid	CF ₃	SH	O-cyclopropyl
<u>H</u>	amino acid	CF ₃	SH	O-acetyl
H	amino acid	CF ₃	SH	SH
H	amino acid	CF ₃	SH	SMe
H_	amino acid	CF ₃	SH	SEt
H	amino acid	CF ₃	SH	S-cyclopropyl
H	amino acid	CF ₃	SH	<u> </u>
H	amino acid	CF ₃	SH	C1
H	amino acid	CF ₃	SH	Br
Н	amino acid	CF ₃	SH	I
amino acid	amino acid	CF ₃	SH	Н
amino acid	amino acid	CF ₃	SH	NH ₂
amino acid	amino acid	CF ₃	SH	NH-cyclopropyl
amino acid	amino acid	CF ₃	SH	NH-methyl
amino acid	amino acid	CF ₃	SH	NH-ethyl
amino acid	amino acid	CF ₃	SH	NH-acetyl
amino acid	amino acid	CF ₃	SH	OH
amino acid	amino acid	CF ₃	SH	OMe
amino acid	amino acid	CF ₃	SH	OEt

amino acid		$\overline{\mathbf{X}}^{1}$	\mathbf{X}^2	Y
	amino acid	CF ₃	SH	O-cyclopropyl
amino acid	amino acid	CF ₃	SH	O-acetyl
amino acid	amino acid	CF ₃	SH	SH
amino acid	amino acid	CF ₃	SH	SMe
 	amino acid	CF ₃	SH	SEt
amino acid	amino acid	CF ₃	SH	S-cyclopropyl
amino acid	amino acid	CF ₃	SH	F
amino acid	amino acid	CF ₃	SH	Cl
amino acid	amino acid	CF ₃	SH	Br
amino acid	amino acid	CF ₃	SH	Ī
	H	CF ₃	SH	H
	H	CF ₃	SH	NH ₂
	H	CF ₃	SH	NH-cyclopropyl
	H	CF ₃	SH	NH-methyl
	H	CF ₃	SH	NH-ethyl
	H	CF ₃	SH	NH-acetyl
	Н	CF ₃	SH	OH
amino acid	H	CF ₃	SH	OMe
amino acid	H	CF ₃	SH	OEt
amino acid	Н	CF ₃	SH	O-cyclopropyl
amino acid	Н	CF ₃	SH	O-acetyl
amino acid	H	CF ₃	SH	SH
amino acid	Н	CF ₃	SH	SMe
amino acid	H	CF ₃	SH	SEt
amino acid	H	CF ₃	SH	S-cyclopropyl
amino acid	H	CF ₃	SH	F
amino acid	Н	CF ₃	SH	Cl
amino acid	Н	CF ₃	SH	Br
amino acid	Н	CF ₃	SH	I
amino acid	acyl	CF ₃	SH	Н
amino acid	acyl	CF ₃	SH	NH ₂
amino acid	acyl	CF ₃	SH	NH-cyclopropyl
amino acid	acyl	CF ₃	SH	NH-methyl
amino acid	acyl	CF ₃	SH	NH-ethyl
amino acid	acyl	CF ₃	SH	NH-acetyl
amino acid	acyl	CF ₃	SH	ОН
amino acid	acyl	CF ₃	SH	OMe
amino acid	acyl	CF ₃	SH	OEt
amino acid	acyl	CF ₃	SH	O-cyclopropyl
amino acid	acyl	CF ₃	SH	O-acetyl
amino acid	acyl	CF ₃	SH	SH
amino acid	acyl	CF ₃	SH	SMe
amino acid	acyl	CF ₃	SH	SEt
amino acid	acyl	CF ₃	SH	S-cyclopropyl
amino acid	acyl	CF ₃	SH	F
amino acid	acyl	CF ₃	SH	Cl
amino acid	acyl	CF ₃	SH	Br

R ²	R ³	X ¹	X ²	Y
amino acid	acyl	CF ₃	SH	I
acyl	H	Br	SH	H
acyl	H	Br	SH	NH ₂
acyl	H	Br	SH	NH-cyclopropyl
acyl	H	Br	SH	NH-methyl
acyl	H	Br	SH	NH-ethyl
acyl	H	Br	SH	NH-acetyl
acyl	Н	Br	SH	OH
acyl	H	Br	SH	OMe
acyl	H	Br	SH	OEt
acyl	H	Br	SH	O-cyclopropyl
acyl	H	Br	SH	O-acetyl
acyl	H	Br	SH	SH
acyl	Н	Br	SH	SMe
acyl	H	Br	SH	SEt
acyl	H	Br	SH	S-cyclopropyl
acyl	H	Br	SH	F
acyl.	H	Br	SH	Cl
acyl	Н	Br	SH	Br
acyl	H	Br	SH	I
acyl	acyl	Br	SH	Н
acyl	acyl	Br	SH	NH ₂
acyl	acyl	Br	SH	NH-cyclopropyl
acyl	acyl	Br	SH	NH-methyl
acyl	acyl	Br	SH	NH-ethyl
acyl	acyl	Br	SH	NH-acetyl
acyl	acyl	Br	SH	OH
acyl	acyl	Br	SH	OMe
acyl	acyl	Br	SH	OEt
acyl	acyl	Br	SH	O-cyclopropyl
acyl	acyl	Br	SH	O-acetyl
acyl	acyl	Br	SH	SH
acyl	acyl	Br	SH	SMe
acyl	acyl	Br	SH	SEt
acyl	acyl	Br	SH	S-cyclopropyl
acyl	acyl	Br	SH	F
acyl	acyl	Br	SH	Cl
acyl	acyl	Br	SH	Br
acyl	acyl	Br	SH	I
acyl	amino acid	Br	SH	Н
acyl	amino acid	Br	SH	NH ₂
acyl	amino acid	Br	SH	NH-cyclopropyl
acyl	amino acid	Br	SH	NH-methyl
acyl	amino acid	Br	SH	NH-ethyl
acyl	amino acid	Br	SH	NH-acetyl
acyl	amino acid	Br	SH	OH
acyl	amino acid	Br	SH	OMe

R ²	\mathbb{R}^3	$\mathbf{X}^{\mathbf{I}}$	X ²	Y
acyl	amino acid	Br	SH	OEt
acyl	amino acid	Br	SH	O-cyclopropyl
acyl	amino acid	Br	SH	O-acetyl
acyl	amino acid	Br	SH	SH
acyl	amino acid	Br	SH	SMe
acyl	amino acid	Br	SH	SEt
acyl	amino acid	Br	SH	S-cyclopropyl
acyl	amino acid	Br	SH	F
acyl	amino acid	Br	SH	Cl
acyl	amino acid	Br	SH	Br
acyl	amino acid	Br	SH	I
H	acyl	Br	SH	H
Н	acyl	Br	SH	NH ₂
Н	acyl	Br	SH	NH-cyclopropyl
H	acyl	Br	SH	NH-methyl
H	acyl	Br	SH	NH-ethyl
H	acyl	Br	SH	NH-acetyl
Н	acyl	Br	SH	OH
H	acyl	Br	SH	OMe
Н	acyl	Br	SH	OEt
Н	acyl	Br	SH	O-cyclopropyl
H	acyl	Br	SH	O-acetyl
H	acyl	Br	SH	SH
H	acyl	Br	SH	SMe
H	acyl	Br	SH	SEt
H	acyl	Br	SH	S-cyclopropyl
Н	acyl	Br	SH	F
H	acyl	Br	SH	Cl
H	acyl	Br	SH	Br
H	acyl	Br	SH	I
H	amino acid	Br	SH	Н
H	amino acid	Br	SH	NH ₂
Н	amino acid	Br	SH	NH-cyclopropyl
H	amino acid	Br	SH	NH-methyl
H	amino acid	Br	SH	NH-ethyl
H	amino acid	Br	SH	NH-acetyl
H	amino acid	Br	SH	OH
H	amino acid	Br	SH	OMe
H	amino acid	Br	SH	OEt ···
H	amino acid	Br	SH	O-cyclopropyl
H	amino acid	Br	SH	O-acetyl
H	amino acid	Br	SH	SH
H	amino acid	Br	SH	SMe
H	amino acid	Br	SH	SEt
H	amino acid	Br	SH	S-cyclopropyl
Н	amino acid	Br	SH	F
H	amino acid	Br	SH	Cl

R ²	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
H	amino acid	Br	SH	Br
H	amino acid	Br	SH	I
amino acid	amino acid	Br	SH	Н
amino acid	amino acid	Br	SH	NH ₂
amino acid	amino acid	Br	SH	NH-cyclopropyl
amino acid	amino acid	Br	SH	NH-methyl
amino acid	amino acid	Br	SH	NH-ethyl
amino acid	amino acid	Br	SH	NH-acetyl
amino acid	amino acid	Br	SH	OH
amino acid	amino acid	Br	SH	OMe
amino acid	amino acid	Br	SH	OEt
amino acid	amino acid	Br	SH	O-cyclopropyl
amino acid	amino acid	Br	SH	O-acetyl
amino acid	amino acid	Br	SH	SH
amino acid	amino acid	Br	SH	SMe
amino acid	amino acid	Br	SH	SEt
amino acid	amino acid	Br	SH	S-cyclopropyl
amino acid	amino acid	Br	SH	F
amino acid	amino acid	Br	SH	Cl
amino acid	amino acid	Br	SH	Br
amino acid	amino acid	Br	SH	I
amino acid	H	Br	SH	H
amino acid	Н	Br	SH	NH ₂
amino acid	Н	Br	SH	NH-cyclopropyl
amino acid	Н	Br	SH	NH-methyl
amino acid	H	Br	SH	NH-ethyl
amino acid	Н	Br	SH	NH-acetyl
amino acid	H	Br	SH	OH
amino acid	Н	Br	SH	OMe
amino acid	Н	Br	SH	OEt
amino acid	Н	Br	SH	O-cyclopropyl
amino acid	Н	Br	SH	O-acetyl
amino acid	H	Br	SH	SH
amino acid	H	Br	SH	SMe
amino acid	Н	Br	SH	SEt
amino acid	H	Br	SH	S-cyclopropyl
amino acid	Н	Br	SH	F
amino acid	H	Br	SH	Cl
amino acid	Н	Br	SH	Br
amino acid	H	Br	SH	1 I
amino acid	acyl	Br	SH	H
amino acid	acyl	Br	SH	NH ₂
amino acid	acyl	Br	SH	NH-cyclopropyl
amino acid	acyl	Br	SH	NH-methyl
amino acid	acyl	Br	SH	NH-ethyl
amino acid	acyl	Br	SH	NH-acetyl
amino acid	acyl	Br	SH	OH
animo aciu	acyı	IDI	ρū	Un

R ²	\mathbb{R}^3	$\overline{\mathbf{X}^1}$	X ²	Y
amino acid	acyl	Br	SH	OMe
amino acid	acyl	Br	SH	OEt
amino acid	acyl	Br	SH	O-cyclopropyl
amino acid	acyl	Br	SH	O-acetyl
amino acid	acyl	Br	SH	SH
amino acid	acyl	Br	SH	SMe
amino acid	acyl	Br	SH	SEt
amino acid	acyl	Br	SH	S-cyclopropyl
amino acid	acyl	Br	SH	F
amino acid	acyl	Br	SH	Cl
amino acid	acyl	Br	SH	Br
amino acid	acyl	Br	SH	Ī
acyl	H	Cl	SH	H
acyl	Н	Cl	SH	NH ₂
acyl	Н	Cl	SH	NH-cyclopropyl
acyl	H	Cl	SH	NH-methyl
acyl	H	Cl	SH	NH-ethyl
acyl	Н	Cl	SH	NH-acetyl
acyl	H	Cl	SH	OH
acyl	Н	Cl	SH	OMe
acyl	H	Cl	SH	OEt
acyl	Н	Cl	SH	O-cyclopropyl
acyl	H	Cl	SH	O-acetyl
acyl	H	Cl	SH	SH
acyl	H	Cl	SH	SMe
acyl	H	Cl	SH	SEt
acyl	H	Cl	SH	S-cyclopropyl
acyl	Н	Cl	SH	F
acyl	H	Cl	SH	Cl
acyl	Н	Cl	SH	Br
acyl	H	Cl	SH	I
acyl	acyl	Cl	SH	Н
acyl	acyl	Cl	SH	NH ₂
acyl	acyl	Cl	SH	NH-cyclopropyl
acyl	acyl	Cl	SH	NH-methyl
acyl	acyl	Cl	SH	NH-ethyl
acyl	acyl	Cl	SH	NH-acetyl
acyl	acyl	C1	SH	OH
acyl	acyl	Cl	SH	OMe
acyl	acyl	Cl	SH	OEt
acyl	acyl	Cl	SH	O-cyclopropyl
acyl	acyl	Cl	SH	O-acetyl
acyl	acyl	Cl	SH	SH
acyl	acyl	Cl	SH	SMe
acyl	acyl	Cl	SH	SEt
acyl	acyl	Cl	SH	S-cyclopropyl
acyl	acyl	Cl	SH	F S-cyclopropyi
1 4071	4031		1 SII	1 1

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
acyl	acyl	Cl	SH	Cl
acyl	acyl	Cl	SH	Br
acyl	acyl	Cl	SH	Ī
acyl	amino acid	Cl	SH	Н
acyl	amino acid	Cl	SH	NH ₂
acyl	amino acid	Cl	SH	NH-cyclopropyl
acyl	amino acid	Cl	SH	NH-methyl
acyl	amino acid	Cl	SH	NH-ethyl
acyl	amino acid	Cl	SH	NH-acetyl
acyl	amino acid	Cl	SH	OH
acyl	amino acid	Cl	SH	OMe
acyl	amino acid	Cl	SH	OEt
acyl	amino acid	Cl	SH	O-cyclopropyl
acyl	amino acid	Cl	SH	O-acetyl
acyl	amino acid	Cl	SH	SH
acyl	amino acid	Cl	SH	SMe
acyl	amino acid	Cl	SH	SEt
acyl	amino acid	Cl	SH	S-cyclopropyl
acyl	amino acid	Cl	SH	F
acyl	amino acid	Cl	SH	Cl
acyl	amino acid	Cl	SH	Br
acyl	amino acid	Cl	SH	I
H	acyl	Cl	SH	H
Н	acyl	Cl	SH	NH ₂
Н	acyl	Cl	SH	NH-cyclopropyl
Н	acyl	Cl	SH	NH-methyl
H	acyl	Cl	SH	NH-ethyl
H	acyl	Cl	SH	NH-acetyl
Н	acyl	Cl	SH	ОН
H	acyl	Cl	SH	OMe
Н	acyl	Cl	SH	OEt
Н	acyl	CI	SH	O-cyclopropyl
H	acyl	Cl	SH	O-acetyl
H	acyl	Cl	SH	SH
Н	acyl	Cl	SH	SMe
Н	acyl	Cl	SH	SEt
H	acyl	Cl	SH	S-cyclopropyl
H	acyl	C1	SH	F
H	acyl	Cl	SH	Cl
Н	acyl	Cl	SH	Br
H	acyl	Cl	SH	I
H	amino acid	Cl	SH	Н
H	amino acid	Cl	SH	NH ₂
Н	amino acid	Cl	SH	NH-cyclopropyl
Н	amino acid	Cl	SH	NH-methyl
Н	amino acid	Cl	SH	NH-ethyl
Н	amino acid	Cl	SH	NH-acetyl

\mathbb{R}^2	R ³	$\mathbf{\hat{X}^{1}}$	X ²	Y
H	amino acid	Cl	SH	OH
H	amino acid	Cl	SH	OMe
H	amino acid	Cl	SH	OEt
H	amino acid	Cl	SH	O-cyclopropyl
H	amino acid	Cl	SH	O-acetyl
H	amino acid	CI	SH	SH
Н	amino acid	Cl	SH	SMe
Н	amino acid	CI	SH	SEt
Н	amino acid	Cl	SH	S-cyclopropyl
H	amino acid	Cl	SH	F
H	amino acid	Cl	SH	Cl
Н	amino acid	Cl	SH	Br
H	amino acid	Cl	SH	I
amino acid	amino acid	Cl	SH	H
amino acid	amino acid	CI	SH	NH ₂
amino acid	amino acid	Cl	SH	NH-cyclopropyl
amino acid	amino acid	CI	SH	NH-methyl
amino acid	amino acid	CI	SH	NH-ethyl
amino acid	amino acid	CI	SH	NH-acetyl
amino acid	amino acid	CI	SH	OH
amino acid	amino acid	Cl	SH	OMe
amino acid	amino acid	Cl	SH	OEt
amino acid	amino acid	Cl	SH	O-cyclopropyl
amino acid	amino acid	Cl	SH	O-acetyl
amino acid	amino acid	Cl	SH	SH
amino acid	amino acid	Cl	SH	SMe
amino acid	amino acid	Cl	SH	SEt
amino acid	amino acid	Cl	SH	S-cyclopropyl
amino acid	amino acid	Cl	SH	F
amino acid	amino acid	Cl	SH	Cl
amino acid	amino acid	Cl	SH	Br
amino acid	amino acid	Cl	SH	I
amino acid	H	Cl	SH	H
amino acid	H	Cl	SH	NH ₂
amino acid	Н	Cl	SH	NH-cyclopropyl
amino acid	Н	Cl	SH	NH-methyl
amino acid	H	Cl	SH	NH-ethyl
amino acid	Н	Cl	SH	NH-acetyl
amino acid	Н	Cl	SH	ОН
amino acid	Н	Cl	SH	OMe
amino acid	Н	Cl	SH	OEt
amino acid	Н	Cl	SH	O-cyclopropyl
amino acid	Н	Cl	SH	O-acetyl
amino acid	H	Cl	SH	SH
amino acid	H	Cl	SH	SMe
amino acid	H	Cl	SH	SEt
amino acid	H	Cl	SH	S-cyclopropyl
			Dit	1 3-cyclopropyr

\mathbb{R}^2	\mathbb{R}^3	X	X ²	Y
amino acid	H	Cl	SH	F
amino acid	Н	Cl	SH	Cl
amino acid	H	Cl	SH	Br
amino acid	H	Cl	SH	I
amino acid	acyl	Cl	SH	H
amino acid	acyl	Cl	SH	NH ₂
amino acid	acyl	Cl	SH	NH-cyclopropyl
amino acid	acyl	Cl	SH	NH-methyl
amino acid	acyl	Cl	SH	NH-ethyl
amino acid	acyl	Cl	SH	NH-acetyl
amino acid	acyl	Cl	SH	OH
amino acid	acyl	Cl	SH	OMe
amino acid	acyl	CI	SH	OEt
amino acid	acyl	Cl	SH	O-cyclopropyl
amino acid	acyl	Cl	SH	O-acetyl
amino acid	acyl	CI	SH	SH
amino acid	acyl	Cl	SH	SMe
amino acid	acyl	CI	SH	SEt
amino acid	acyl	Cl	SH	
amino acid	acyl	Cl	SH	S-cyclopropyl F
amino acid	acyl	Cl	SH	Cl
amino acid	acyl	Cl	SH	Br
amino acid	acyl	Cl	SH	I
acyl	H	F	SH	H
acyl	H	F	SH	NH ₂
acyl	H	F	SH	NH-cyclopropyl
acyl	H	F	SH	NH-methyl
acyl	H	F	SH	NH-ethyl
acyl	H	F	SH	NH-acetyl
acyl	H	F	SH	OH OH
acyl	H	F	SH	OMe
acyl	H	F	SH	OEt
acyl	H	F	SH	
acyl	H	F	SH	O-cyclopropyl O-acetyl
acyl	Н	F	SH	SH SH
acyl	H	F	SH	SMe
acyl	H	F	SH	SEt
acyl	H	F	SH	S-cyclopropyl
acyl	H	F	SH	F S-cyclopropyi
acyl	H	F	SH	Cl
acyl	H	F	SH	Br
acyl	H	F		I
acyl	acyl	F	SH	H
		F		
acyl	acyl		SH	NH ₂
acyl	acyl	F	SH	NH-cyclopropyl
acyl	acyl	F	SH	NH-methyl
acyl	acyl	F	SH	NH-ethyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	acyl	F	SH	NH-acetyl
acyl	acyl	F	SH	OH
acyl	acyl	F	SH	OMe
acyl	acyl	F	SH	OEt
acyl	acyl	F	SH	O-cyclopropyl
acyl	acyl	F	SH	O-acetyl
acyl	acyl	F	SH	SH
acyl	acyl	F	SH	SMe
acyl	acyl	F	SH	SEt
acyl	acyl	F	SH	S-cyclopropyl
acyl	acyl	F	SH	F
acyl	acyl	F	SH	Cl
acyl	acyl	F	SH	Br
acyl	acyl	F	SH	
acyl	amino acid	F	SH	H
acyl	amino acid	F	SH	NH ₂
acyl	amino acid	F	SH	NH-cyclopropyl
acyl	amino acid	F	SH	NH-methyl
acyl	amino acid	F	SH	NH-ethyl
acyl	amino acid	F	SH	NH-acetyl
acyl	amino acid	F	SH	ОН
acyl	amino acid	F	SH	OMe
acyl	amino acid	F	SH	OEt
acyl	amino acid	F	SH	O-cyclopropyl
acyl	amino acid	F	SH	O-acetyl
acyl	amino acid	F	SH	SH
acyl	amino acid	F	SH	SMe
acyl	amino acid	F	SH	SEt
acyl	amino acid	F	SH	S-cyclopropyl
acyl	amino acid	F	SH	F
acyl	amino acid	F	SH	Cl
acyl	amino acid	F	SH	Br
acyl	amino acid	F	SH	Ī
H	acyl	F	SH	Н
H	acyl	F	SH	NH ₂
H	acyl	F	SH	NH-cyclopropyl
H	acyl	F	SH	NH-methyl
H	acyl	F	SH	NH-ethyl
H	acyl	F	SH	NH-acetyl
H	acyl	F	SH	OH
H	acyl	F	SH	OMe
H	acyl	F	SH	OEt
Н	acyl	F	SH	O-cyclopropyl
H	acyl	F	SH	O-acetyl
H	acyl	F	SH	SH
Н	acyl	F	SH	SMe
H	acyl	F	SH	SEt

\mathbb{R}^2	\mathbb{R}^3	X1	X ²	Y
H	acyl	F	SH	S-cyclopropyl
Н	acyl	F	SH	F
Н	acyl	F	SH	Cl
H	acyl	F	SH	Br
H	acyl	F	SH	I
H	amino acid	F	SH	H
Н	amino acid	F	SH	NH ₂
H	amino acid	F	SH	NH-cyclopropyl
Н	amino acid	F	SH	NH-methyl
Н	amino acid	F	SH	NH-ethyl
Н	amino acid	F	SH	NH-acetyl
Н	amino acid	F	SH	OH
Н	amino acid	F	SH	OMe
Н	amino acid	F	SH	OEt
Н	amino acid	F	SH	O-cyclopropyl
Н	amino acid	F	SH	O-acetyl
Н	amino acid	F	SH	SH
Н	amino acid	F	SH	SMe
Н	amino acid	F	SH	SEt
Н	amino acid	F	SH	S-cyclopropyl
H	amino acid	F	SH	F
Н	amino acid	F	SH	Cl
H	amino acid	F	SH	Br
Н	amino acid	F	SH	I
amino acid	amino acid	F	SH	H
amino acid	amino acid	F	SH	NH ₂
amino acid	amino acid	F	SH	NH-cyclopropyl
amino acid	amino acid	F	SH	NH-methyl
amino acid	amino acid	F	SH	NH-ethyl
amino acid	amino acid	F	SH	NH-acetyl
amino acid	amino acid	F	SH	OH
amino acid	amino acid	F	SH	OMe
amino acid	amino acid	F	SH	OEt
amino acid	amino acid	F	SH	O-cyclopropyl
amino acid	amino acid	F	SH	O-acetyl
amino acid	amino acid	F	SH	SH
amino acid	amino acid	F	SH	SMe
amino acid	amino acid	F	SH	SEt
amino acid	amino acid	F	SH	S-cyclopropyl
amino acid	amino acid	F	SH	F
amino acid	amino acid	F	SH	Cl
amino acid	amino acid	F	SH	Br
amino acid	amino acid	F	SH	I
amino acid	Н	F	SH	H
amino acid	H	F	SH	NH ₂
amino acid	H	F	SH	NH-cyclopropyl
amino acid	H	F	SH	NH-methyl
	1		DII	1 1111-IIICHIYI

\mathbb{R}^2	R ³	\overline{X}^{1}	X ²	Y
amino acid	Н	F	SH	NH-ethyl
amino acid	Н	F	SH	NH-acetyl
amino acid	H	F	SH	OH
amino acid	Н	F	SH	OMe
amino acid	Н	F	SH	OEt
amino acid	Н	F	SH	O-cyclopropyl
amino acid	Н	F	SH	O-acetyl
amino acid	Н	F	SH	SH
amino acid	Н	F	SH	SMe
amino acid	Н	F	SH	SEt
amino acid	Н	F	SH	S-cyclopropyl
amino acid	H	F	SH	F
amino acid	H	F	SH	Cl
amino acid	H	F	SH	Br
amino acid	H	F	SH	I
amino acid	acyl	F	SH	H
amino acid	acyl	F	SH	NH ₂
amino acid	acyl	F	SH	NH-cyclopropyl
amino acid	acyl	F	SH	NH-methyl
amino acid	acyl	F	SH	NH-ethyl
amino acid	acyl	F	SH	NH-acetyl
amino acid	acyl	F	SH	OH
amino acid	acyl	F	SH	OMe
amino acid	acyl	F	SH	OEt
amino acid	acyl	F	SH	O-cyclopropyl
amino acid	acyl	F	SH	O-acetyl
amino acid	acyl	F	SH	SH
amino acid	acyl	F	SH	SMe
amino acid	acyl	F	SH	SEt
amino acid	acyl	F	SH	S-cyclopropyl
amino acid	acyl	F	SH	F
amino acid	acyl	F	SH	Cl
amino acid	acyl	F	SH	Br
amino acid	acyl	F	SH	Ī
acyl	H	NH ₂	SH	H
acyl	H	NH ₂	SH	NH ₂
acyl	H	NH ₂	SH	NH-cyclopropyl
acyl	H	NH ₂	SH	NH-methyl
acyl	H	NH ₂	SH	NH-ethyl
acyl	H	NH ₂	SH	NH-acetyl
acyl	H	NH ₂	SH	OH OH
acyl	H	NH ₂	SH	OMe
acyl	H	NH ₂	SH	OEt
acyl	H	NH ₂	SH	O-cyclopropyl
acyl	H	NH ₂	SH	O-acetyl
acyl	H		SH	SH
	H	NH ₂		
acyl	п	NH ₂	SH	SMe

R ²	R ³	X ¹	X ²	Y
acyl	H	NH ₂	SH	SEt
acyl	H	NH ₂	SH	S-cyclopropyl
acyl	Н	NH ₂	SH	F
acyl	Н	NH ₂	SH	Cl
acyl	H	NH ₂	SH	Br
acyl	H	NH ₂	SH	I
acyl	acyl	NH ₂	SH	H
acyl	acyl	NH ₂	SH	NH ₂
acyl	acyl	NH ₂	SH	NH-cyclopropyl
acyl	acyl	NH ₂	SH	NH-methyl
acyl	acyl	NH ₂	SH	NH-ethyl
acyl	acyl	NH ₂	SH	NH-acetyl
acyl	acyl	NH ₂	SH	OH
acyl	acyl	NH ₂	SH	OMe
acyl	acyl	NH ₂	SH	OEt
acyl	acyl	NH ₂	SH	O-cyclopropyl
acyl	acyl	NH ₂	SH	O-acetyl
acyl	acyl	NH ₂	SH	SH
acyl	acyl	NH ₂	SH	SMe
acyl	acyl	NH ₂	SH	SEt
acyl	acyl	NH ₂	SH	S-cyclopropyl
acyl	acyl	NH ₂	SH	F
acyl	acyl	NH ₂	SH	Cl
acyl	acyl	NH ₂	SH	Br
acyl	acyl	NH ₂	SH	I
acyl	amino acid	NH ₂	SH	Н
acyl	amino acid	NH ₂	SH	NH ₂
acyl	amino acid	NH ₂	SH	NH-cyclopropyl
acyl	amino acid	NH ₂	SH	NH-methyl
acyl	amino acid	NH ₂	SH	NH-ethyl
acyl	amino acid	NH ₂	SH	NH-acetyl
acyl	amino acid	NH ₂	SH	OH
acyl	amino acid	NH ₂	SH	OMe
acyl	amino acid	NH ₂	SH	OEt
acyl	amino acid	NH ₂	SH	O-cyclopropyl
acyl	amino acid	NH ₂	SH	O-acetyl
acyl	amino acid	NH ₂	SH	SH
acyl	amino acid	NH ₂	SH	SMe
acyl	amino acid	NH ₂	SH	SEt
acyl	amino acid	NH ₂	SH	S-cyclopropyl
acyl	amino acid	NH ₂	SH	F
acyl	amino acid	NH ₂	SH	Cl
acyl	amino acid	NH ₂	SH	Br
acyl	amino acid	NH ₂	SH	I
Н	acyl	NH ₂	SH	H
H	acyl	NH ₂	SH	NH ₂
Н	acyl	NH ₂	SH	NH-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
H	acyl	$\overline{NH_2}$	SH	NH-methyl
H	acyl	NH ₂	SH	NH-ethyl
Н	acyl	NH ₂	SH	NH-acetyl
Н	acyl	NH ₂	SH	ОН
Н	acyl	NH ₂	SH	OMe
H	acyl	NH ₂	SH	OEt
Н	acyl	NH ₂	SH	O-cyclopropyl
H	acyl	NH ₂	SH	O-acetyl
Н	acyl	NH ₂	SH	SH
Н	acyl	NH ₂	SH	SMe
Н	acyl	NH ₂	SH	SEt
Н	acyl	NH ₂	SH	S-cyclopropyl
H	acyl	NH ₂	SH	F
H	acyl	NH ₂	SH	Cl
H	acyl	NH ₂	SH	Br
Н	acyl	NH ₂	SH	I
H	amino acid	NH ₂	SH	H
H	amino acid	NH ₂	SH	NH ₂
Н	amino acid	NH ₂	SH	NH-cyclopropyl
Н	amino acid	NH ₂	SH	NH-methyl
Н	amino acid	NH ₂	SH	NH-ethyl
H	amino acid	NH ₂	SH	NH-acetyl
H	amino acid	NH ₂	SH	OH
H	amino acid	NH ₂	SH	OMe
H	amino acid	NH ₂	SH	OEt
H	amino acid	NH ₂	SH	O-cyclopropyl
H	amino acid	NH ₂	SH	O-acetyl
H	amino acid	NH ₂	SH	SH
H	amino acid	NH ₂	SH	SMe
H	amino acid	NH ₂	SH	SEt
H	amino acid	NH ₂	SH	S-cyclopropyl
H	amino acid	NH ₂	SH	F
H	amino acid	NH ₂	SH	Cl
H	amino acid	NH ₂	SH	Br
H	amino acid	NH ₂	SH	I
amino acid	amino acid	NH ₂	SH	H
amino acid	amino acid	NH ₂	SH	NH ₂
amino acid	amino acid	NH ₂	SH	NH-cyclopropyl
amino acid	amino acid	NH ₂	SH	NH-methyl
amino acid	amino acid	NH ₂	SH	NH-ethyl
amino acid	amino acid	NH ₂	SH	NH-acetyl
amino acid	amino acid	NH ₂	SH	ОН
amino acid	amino acid	NH ₂	SH	OMe
amino acid	amino acid	NH ₂	SH	OEt
amino acid	amino acid	NH ₂	SH	O-cyclopropyl
amino acid	amino acid	NH ₂	SH	O-acetyl
amino acid	amino acid	NH ₂	SH	SH

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	amino acid	NH ₂	SH	SMe
amino acid	amino acid	NH ₂	SH	SEt
amino acid	amino acid	NH ₂	SH	S-cyclopropyl
amino acid	amino acid	NH ₂	SH	F
amino acid	amino acid	NH ₂	SH	Cl
amino acid	amino acid	NH ₂	SH	Br
amino acid	amino acid	NH ₂	SH	I
amino acid	Н	NH ₂	SH	H
amino acid	Н	NH ₂	SH	NH ₂
amino acid	H	NH ₂	SH	NH-cyclopropyl
amino acid	Н	NH ₂	SH	NH-methyl
amino acid	H	NH ₂	SH	NH-ethyl
amino acid	Н	NH ₂	SH	NH-acetyl
amino acid	Н	NH ₂	SH	OH
amino acid	H	NH ₂	SH	OMe
amino acid	H	NH ₂	SH	OEt
amino acid	H	NH ₂	SH	O-cyclopropyl
amino acid	Н	NH ₂	SH	O-acetyl
amino acid	H	NH ₂	SH	SH
amino acid	H	NH ₂	SH	SMe
amino acid	Н	NH ₂	SH	SEt
amino acid	H	NH ₂	SH	S-cyclopropyl
amino acid	Н	NH ₂	SH	F
amino acid	H	NH ₂	SH	Cl
amino acid	H	NH ₂	SH	Br
amino acid	H	NH ₂	SH	I
amino acid	acyl	NH ₂	SH	H
amino acid	acyl	NH ₂	SH	NH ₂
amino acid	acyl	NH ₂	SH	NH-cyclopropyl
amino acid	acyl	NH ₂	SH	NH-methyl
amino acid	acyl	NH ₂	SH	NH-ethyl
amino acid	acyl	NH ₂	SH	NH-acetyl
amino acid	acyl	NH ₂	SH	ОН
amino acid	acyl	NH ₂	SH	OMe
amino acid	acyl	NH ₂	SH	OEt
amino acid	acyl	NH ₂	SH	O-cyclopropyl
amino acid	acyl	NH ₂	SH	O-acetyl
amino acid	acyl	NH ₂	SH	SH
amino acid	acyl	NH ₂	SH	SMe
amino acid	acyl	NH ₂	SH	SEt
amino acid	acyl	NH ₂	SH	S-cyclopropyl
amino acid	acyl	NH ₂	SH	F
amino acid	acyl	NH ₂	SH	Cl
amino acid	acyl	NH ₂	SH	Br
amino acid	acyl	NH ₂	SH	I
acyl	Н	SH	SH	H
		1	1	1 77

\mathbb{R}^2	R ³	X	X ²	Y
acyl	H	SH	SH	NH-cyclopropyl
acyl	Н	SH	SH	NH-methyl
acyl	H	SH	SH	NH-ethyl
acyl	Н	SH	SH	NH-acetyl
acyl	H	SH	SH	OH
acyl	H	SH	SH	OMe
acyl	H	SH	SH	OEt
acyl	H	SH	SH	O-cyclopropyl
acyl	H	SH	SH	O-acetyl
acyl	H	SH	SH	SH
acyl	H	SH	SH	SMe
acyl	H	SH	SH	SEt
acyl	H	SH	SH	S-cyclopropyl
acyl	H	SH	SH	F S-cyclopropyr
acyl	H	SH	SH	Cl
acyl	H	SH	SH	Br
acyl	H	SH	SH	I
acyl	acyl	SH	SH	H
acyl	acyl	SH	SH	NH ₂
acyl	acyl	SH	SH	NH-cyclopropyl
acyl	acyl	SH	SH	NH-methyl
acyl	acyl	SH	SH	NH-ethyl
acyl	acyl	SH	SH	NH-acetyl
acyl	acyl	SH	SH	OH
acyl	acyl	SH	SH	OMe
acyl	acyl	SH	SH	OEt
acyl	acyl	SH	SH	O-cyclopropyl
acyl	acyl	SH	SH	O-acetyl
acyl	acyl	SH	SH	SH
acyl	acyl	SH	SH	SMe
acyl	acyl	SH	SH	SEt
acyl	acyl	SH	SH	S-cyclopropyl
acyl	acyl	SH	SH	F
acyl	acyl	SH	SH	Cl
acyl	acyl	SH	SH	Br
acyl	acyl	SH	SH	I
acyl	amino acid	SH	SH	H
acyl	amino acid	SH	SH	NH ₂
acyl	amino acid	SH	SH	NH-cyclopropyl
acyl	amino acid	SH	SH	NH-methyl
acyl	amino acid	SH	SH	NH-ethyl
acyl	amino acid	SH	SH	NH-acetyl
acyl	amino acid	SH	SH	
				OM
acyl	amino acid	SH	SH	OMe
acyl	amino acid	SH	SH	OEt
acyl	amino acid	SH	SH	O-cyclopropyl
acyl	amino acid	SH	SH	O-acetyl

R ²	\mathbb{R}^3	X ¹	X ²	Y
acyl	amino acid	SH	SH	SH
acyl	amino acid	SH	SH	SMe
acyl	amino acid	SH	SH	SEt
acyl	amino acid	SH	SH	S-cyclopropyl
acyl	amino acid	SH	SH	F
acyl	amino acid	SH	SH	Cl
acyl	amino acid	SH	SH	Br
acyl	amino acid	SH	SH	Ī
H	acyl	SH	SH	H
Н	acyl	SH	SH	NH ₂
H	acyl	SH	SH	NH-cyclopropyl
H	acyl	SH	SH	NH-methyl
H	acyl	SH	SH	NH-ethyl
Н	acyl	SH	SH	NH-acetyl
H	acyl	SH	SH	ОН
Н	acyl	SH	SH	OMe
Н	acyl	SH	SH	OEt
Н	acyl	SH	SH	O-cyclopropyl
H	acyl	SH	SH	O-acetyl
Н	acyl	SH	SH	SH
H	acyl	SH	SH	SMe
Н	acyl	SH	SH	SEt
Н	acyl	SH	SH	S-cyclopropyl
Н	acyl	SH	SH	F
Н	acyl	SH	SH	Cl
Н	acyl	SH	SH	Br
Н	acyl	SH	SH	I
Н	amino acid	SH	SH	H
Н	amino acid	SH	SH	NH ₂
H	amino acid	SH	SH	NH-cyclopropyl
H	amino acid	SH	SH	NH-methyl
Н	amino acid	SH	SH	NH-ethyl
H	amino acid	SH	SH	NH-acetyl
H	amino acid	SH	SH	ОН
H	amino acid	SH	SH	OMe
H	amino acid	SH	SH	OEt
H	amino acid	SH	SH	O-cyclopropyl
H	amino acid	SH	SH	O-acetyl
H	amino acid	SH	SH	SH
H	amino acid	SH	SH	SMe
Н	amino acid	SH	SH	SEt
Н	amino acid	SH	SH	S-cyclopropyl
Н	amino acid	SH	SH	F
Н	amino acid	SH	SH	Cl
H	amino acid	SH	SH	Br
				
H	amino acid	SH	SH	I

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	\mathbf{X}^2	Y
amino acid	amino acid	SH	SH	NH ₂
amino acid	amino acid	SH	SH	NH-cyclopropyl
amino acid	amino acid	SH	SH	NH-methyl
amino acid	amino acid	SH	SH	NH-ethyl
amino acid	amino acid	SH	SH	NH-acetyl
amino acid	amino acid	SH	SH	ОН
amino acid	amino acid	SH	SH	OMe
amino acid	amino acid	SH	SH	OEt
amino acid	amino acid	SH	SH	O-cyclopropyl
amino acid	amino acid	SH	SH	O-acetyl
amino acid	amino acid	SH	SH	SH
amino acid	amino acid	SH	SH	SMe
amino acid	amino acid	SH	SH	SEt
amino acid	amino acid	SH	SH	S-cyclopropyl
amino acid	amino acid	SH	SH	F
amino acid	amino acid	SH	SH	Cl
amino acid	amino acid	SH	SH	Br
amino acid	amino acid	SH	SH	I
amino acid	H	SH	SH	Н
amino acid	H	SH	SH	NH ₂
amino acid	H	SH	SH	NH-cyclopropyl
amino acid	Н	SH	SH	NH-methyl
amino acid	H	SH	SH	NH-ethyl
amino acid	Н	SH	SH	NH-acetyl
amino acid	H	SH	SH	OH
amino acid	Н	SH	SH	OMe
amino acid	H	SH	SH	OEt
amino acid	H	SH	SH	O-cyclopropyl
amino acid	H	SH	SH	O-acetyl
amino acid	H	SH	SH	SH
amino acid	H	SH	SH	SMe
amino acid	Н	SH	SH	SEt
amino acid	H	SH	SH	S-cyclopropyl
amino acid	Н	SH	SH	F
amino acid	H	SH	SH	Cl
amino acid	H	SH	SH	Br
amino acid	H	SH	SH	I
amino acid	acyl	SH	SH	H
amino acid	acyl	SH	SH	NH ₂
amino acid	acyl	SH	SH	NH-cyclopropyl
amino acid	acyl	SH	SH	NH-methyl
amino acid	acyl	SH	SH	NH-ethyl
amino acid	acyl	SH	SH	NH-acetyl
amino acid	acyl	SH	SH	OH
amino acid	acyl	SH	SH	OMe
amino acid	acyl	SH	SH	OEt
amino acid	acyl	SH	SH	O-cyclopropyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	acyl	SH	SH	O-acetyl
amino acid	acyl	SH	SH	SH
amino acid	acyl	SH	SH	SMe
amino acid	acyl	SH	SH	SEt
amino acid	acyl	SH	SH	S-cyclopropyl
amino acid	acyl	SH	SH	F
amino acid	acyl	SH	SH	Cl
amino acid	acyl	SH	SH	Br
amino acid	acyl	SH	SH	I
acyl	H	OH	SH	H
acyl	Н	ОН	SH	NH ₂
acyl	Н	ОН	SH	NH-cyclopropyl
acyl	Н	OH	SH	NH-methyl
acyl	Н	ОН	SH	NH-ethyl
acyl	Н	OH	SH	NH-acetyl
acyl	H	OH	SH	OH
acyl	H	ОН	SH	OMe
acyl	Н	ОН	SH	OEt
acyl	Н	OH	SH	O-cyclopropyl
acyl	H	ОН	SH	O-acetyl
acyl	Н	OH	SH	SH
acyl	H	OH	SH	SMe
acyl	Н	OH	SH	SEt
acyl	Н	OH	SH	S-cyclopropyl
acyl	Н	OH	SH	F
acyl	Н	OH	SH	Cl
acyl	Н	ОН	SH	Br
acyl	H	ОН	SH	I
acyl	acyl	ОН	SH	Н
acyl	acyl	ОН	SH	NH ₂
acyl	acyl	ОН	SH	NH-cyclopropyl
acyl	acyl	OH	SH	NH-methyl
acyl	acyl	OH	SH	NH-ethyl
acyl	acyl	OH	SH	NH-acetyl
acyl	acyl	ОН	SH	OH
acyl	acyl	OH	SH	OMe
acyl	acyl	OH	SH	OEt
acyl	acyl	ОН	SH	O-cyclopropyl
acyl	acyl	OH	SH	O-acetyl
acyl	acyl	OH	SH	SH
acyl	acyl	OH	SH	SMe
acyl	acyl	OH	SH	SEt
acyl	acyl	OH	SH	S-cyclopropyl
acyl	acyl	OH	SH	F
acyl	acyl	ОН	SH	Cl
acyl	acyl	ОН	SH	Br
acyl	acyl	ОН	SH	I

\mathbb{R}^2	\mathbb{R}^3	X	X ²	Y
acyl	amino acid	OH	SH	H
acyl	amino acid	OH	SH	NH ₂
acyl	amino acid	ОН	SH	NH-cyclopropyl
acyl	amino acid	ОН	SH	NH-methyl
acyl	amino acid	OH	SH	NH-ethyl
acyl	amino acid	OH	SH	NH-acetyl
acyl	amino acid	OH	SH	OH
acyl	amino acid	OH	SH	OMe
acyl	amino acid	OH	SH	OEt
acyl	amino acid	OH	SH	O-cyclopropyl
acyl	amino acid	OH	SH	O-acetyl
acyl	amino acid	OH	SH	SH
acyl	amino acid	ОН	SH	SMe
acyl	amino acid	OH	SH	SEt
acyl	amino acid	OH	SH	S-cyclopropyl
acyl	amino acid	ОН	SH	F
acyl	amino acid	OH	SH	Cl
acyl	amino acid	OH	SH	Br
acyl	amino acid	ОН	SH	I
Н	acyl	OH	SH	Н
H	acyl	ОН	SH	NH ₂
Н	acyl	ОН	SH	NH-cyclopropyl
Н	acyl	OH	SH	NH-methyl
Н	acyl	OH	SH	NH-ethyl
H	acyl	OH	SH	NH-acetyl
H	acyl	OH	SH	OH
Н	acyl	OH	SH	ОМе
H	acyl	OH	SH	OEt
H	acyl	OH	SH	O-cyclopropyl
H	acyl	ОН	SH	O-acetyl
H	acyl	OH	SH	SH
H	acyl	OH	SH	SMe
H	acyl	ОН	SH	SEt
H	acyl	OH	SH	S-cyclopropyl
H	acyl	OH	SH	F
H	acyl	OH	SH	Cl
H	acyl	OH	SH	Br
H	acyl	OH	SH	I
H	amino acid	ОН	SH	H
H	amino acid	OH	SH	NH ₂
H	amino acid	OH	SH	NH-cyclopropyl
H	amino acid	OH	SH	NH-methyl
H	amino acid	OH	SH	NH-ethyl
H	amino acid	OH	SH	NH-acetyl
H	amino acid	ОН	SH	ОН
H	amino acid	OH	SH	OMe
H	amino acid	OH	SH	OEt

\mathbb{R}^2	\mathbb{R}^3	X ¹	\mathbf{X}^2	Y
Н	amino acid	OH	SH	O-cyclopropyl
H	amino acid	OH	SH	O-acetyl
H	amino acid	OH	SH	SH
H	amino acid	OH	SH	SMe
H	amino acid	OH	SH	SEt
H	amino acid	OH	SH	S-cyclopropyl
H	amino acid	OH	SH	F
H	amino acid	OH	SH	Cl
H	amino acid	OH	SH	Br
H	amino acid	OH	SH	I
amino acid	amino acid	OH	SH	Н
amino acid	amino acid	ОН	SH	NH ₂
amino acid	amino acid	OH	SH	NH-cyclopropyl
amino acid	amino acid	OH	SH	NH-methyl
amino acid	amino acid	OH	SH	NH-ethyl
amino acid	amino acid	OH	SH	NH-acetyl
amino acid	amino acid	OH	SH	OH
amino acid	amino acid	OH	SH	OMe
amino acid	amino acid	OH	SH	OEt
amino acid	amino acid	OH	SH	O-cyclopropyl
amino acid	amino acid	OH	SH	O-acetyl
amino acid	amino acid	OH	SH	SH
amino acid	amino acid	OH	SH	SMe
amino acid	amino acid	OH	SH	SEt
amino acid	amino acid	ОН	SH	S-cyclopropyl
amino acid	amino acid	OH	SH	F
amino acid	amino acid	OH	SH	Cl
amino acid	amino acid	OH	SH	Br
amino acid	amino acid	OH	SH	I
amino acid	H	OH	SH	Н
amino acid	H	OH	SH	NH ₂
amino acid	H	OH	SH	NH-cyclopropyl
amino acid	H	OH	SH	NH-methyl
amino acid	H	OH	SH	NH-ethyl
amino acid	H	OH	SH	NH-acetyl
amino acid	H	OH	SH	OH
amino acid	H	OH	SH	OMe
amino acid	H	OH	SH	OEt
amino acid	H	OH	SH	O-cyclopropyl
amino acid	H	OH	SH	O-acetyl
amino acid	H	OH	SH	SH
amino acid	H	OH	SH	SMe
amino acid	H	OH	SH	SEt
amino acid	Н	OH	SH	S-cyclopropyl
amino acid	Н	OH	SH	F
amino acid	Н	OH	SH	Cl
amino acid	Н	OH	SH	Br

R ²	\mathbb{R}^3	X ¹	X ²	Y
amino acid	H	OH	SH	I
amino acid	acyl	ОН	SH	Н
amino acid	acyl	OH	SH	NH ₂
amino acid	acyl	ОН	SH	NH-cyclopropyl
amino acid	acyl	OH	SH	NH-methyl
amino acid	acyl	OH	SH	NH-ethyl
amino acid	acyl	OH	SH	NH-acetyl
amino acid	acyl	OH	SH	ОН
amino acid	acyl	OH	SH	OMe
amino acid	acyl	OH	SH	OEt
amino acid	acyl	OH	SH	O-cyclopropyl
amino acid	acyi	OH	SH	O-acetyl
amino acid	acyl	OH	SH	SH
amino acid	acyl	OH	SH	SMe
amino acid	acyl	ОН	SH	SEt
amino acid	acyl	OH	SH	S-cyclopropyl
amino acid	acyl	OH	SH	F
amino acid	acyl	OH	SH	Cl
amino acid	acyl	ОН	SH	Br
amino acid	acyl	ОН	SH	I
acyl	Н	CH ₃	OH	H
acyl	H	CH ₃	OH	NH ₂
acyl	Н	CH ₃	OH	NH-cyclopropyl
acyl	Н	CH ₃	OH	NH-methyl
acyl	H	CH ₃	OH	NH-ethyl
acyl	Н	CH ₃	OH	NH-acetyl
acyl	Н	CH ₃	OH	OH
acyl	Н	CH ₃	OH	OMe
acyl	Н	CH ₃	OH	OEt
acyl	H	CH ₃	ОН	O-cyclopropyl
acyl	Н	CH ₃	OH	O-acetyl
acyl	H	CH ₃	OH	SH
acyl	H	CH ₃	ОН	SMe
acyl	<u>H</u>	CH ₃	OH	SEt
acyl	Н	CH ₃	ОН	S-cyclopropyl
acyl	H	CH ₃	ОН	F .
acyl	H	CH ₃	OH	Cl
acyl	H	CH ₃	OH	Br
acyl	H	CH ₃	OH	I v v
acyl	acyl	CH ₃	ОН	Н
acyl	acyl	CH ₃	OH	NH ₂
acyl	acyl	CH ₃	OH	NH-cyclopropyl
acyl	acyl	CH ₃	OH	NH-methyl
acyl	acyl	CH ₃	OH	NH-ethyl
acyl	acyl	CH ₃	ОН	NH-acetyl
acyl	acyl	CH ₃	OH	OH
acyl	acyl	CH ₃	OH	OMe

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	acyl	CH ₃	ОН	OEt
acyl	acyl	CH ₃	OH	O-cyclopropyl
acyl	acyl	CH ₃	OH	O-acetyl
acyl	acyl	CH₃	ОН	SH
acyl	acyl	CH ₃	OH	SMe
acyl	acyl	CH ₃	OH	SEt
acyl	acyl	CH ₃	OH	S-cyclopropyl
acyl	acyl	CH ₃	OH	F
acyl	acyl	CH ₃	OH	Cl
acyl	acyl	CH ₃	OH	Br
acyl	acyl	CH ₃	OH	I
acyl	amino acid	CH ₃	OH	H
acyl	amino acid	CH₃	OH	NH ₂
acyl	amino acid	CH ₃	OH	NH-cyclopropyl
acyl	amino acid	CH ₃	OH	NH-methyl
acyl	amino acid	CH ₃	OH	NH-ethyl
acyl	amino acid	CH ₃	OH	NH-acetyl
acyl	amino acid	CH ₃	OH	OH
acyl	amino acid	CH ₃	OH	OMe
acyl	amino acid	CH ₃	OH	OEt
acyl	amino acid	CH ₃	ОН	O-cyclopropyl
acyl	amino acid	CH ₃	OH	O-acetyl
acyl	amino acid	CH ₃	OH	SH
acyl	amino acid	CH ₃	OH	SMe
acyl	amino acid	CH ₃	OH	SEt
acyl	amino acid	CH ₃	ОН	S-cyclopropyl
acyl	amino acid	CH ₃	OH	F
acyl	amino acid	CH ₃	ОН	Cl
acyl	amino acid	CH ₃	OH	Br
acyl	amino acid	CH ₃	OH	I
Н	acyl	CH ₃	OH	Н
Н	acyl	CH ₃	OH	NH ₂
H	acyl	CH ₃	OH	NH-cyclopropyl
Н	acyl	CH ₃	OH	NH-methyl
H	acyl	CH ₃	OH	NH-ethyl
Н	acyl	CH ₃	OH	NH-acetyl
H	acyl	CH ₃	OH	ОН
Н	acyl	CH ₃	OH	OMe
H	acyl	CH ₃	ОН	OEt
Н	acyl	CH ₃	OH	O-cyclopropyl
H	acyl	CH ₃	OH	O-acetyl
Н	acyl	CH ₃	OH	SH
Н	acyl	CH ₃	ОН	SMe
Н	acyl	CH ₃	ОН	SEt
Н	acyl	CH ₃	OH	S-cyclopropyl
H	acyl	CH ₃	OH	F
Н	acyl	CH ₃	OH	Cl

\mathbb{R}^2	R ³	X^1	X ²	Y
H	acyl	CH ₃	OH	Br
H	acyl	CH ₃	ОН	I
H	amino acid	CH ₃	OH	H
H	amino acid	CH ₃	OH	NH ₂
H	amino acid	CH ₃	OH	NH-cyclopropyl
H	amino acid	CH ₃	OH	NH-methyl
H	amino acid	CH ₃	OH	NH-ethyl
H	amino acid	CH ₃	OH	NH-acetyl
Н	amino acid	CH ₃	OH	OH
Н	amino acid	CH ₃	OH	OMe
H	amino acid	CH ₃	OH	OEt
H	amino acid	CH ₃	ОН	O-cyclopropyl
H	amino acid	CH ₃	OH	O-acetyl
H	amino acid	CH ₃	OH	SH
Н	amino acid	CH ₃	OH	SMe
H	amino acid	CH ₃	OH	SEt
Н	amino acid	CH ₃	OH	S-cyclopropyl
H	amino acid	CH ₃	OH	F
H	amino acid	CH ₃	OH	Cl
Н	amino acid	CH ₃	OH	Br
H	amino acid	CH ₃	ОН	I
amino acid	amino acid	CH ₃	ОН	Н
amino acid	amino acid	CH ₃	OH	NH ₂
amino acid	amino acid	CH ₃	ОН	NH-cyclopropyl
amino acid	amino acid	CH ₃	OH	NH-methyl
amino acid	amino acid	CH ₃	ОН	NH-ethyl
amino acid	amino acid	CH ₃	OH	NH-acetyl
amino acid	amino acid	CH ₃	OH	ОН
amino acid	amino acid	CH ₃	OH	OMe
amino acid	amino acid	CH ₃	OH	OEt
amino acid	amino acid	CH ₃	OH	O-cyclopropyl
amino acid	amino acid	CH ₃	OH	O-acetyl
amino acid	amino acid	CH ₃	OH	SH
amino acid	amino acid	CH ₃	ОН	SMe
amino acid	amino acid	CH ₃	ОН	SEt
amino acid	amino acid	CH ₃	OH	S-cyclopropyl
amino acid	amino acid	CH ₃	OH	F
amino acid	amino acid	CH ₃	ОН	Cl
amino acid	amino acid	CH ₃	OH	Br
amino acid	amino acid	CH ₃	OH	I
amino acid	H_	CH ₃	ОН	H
amino acid	H	CH ₃	OH	NH ₂
amino acid	H	CH ₃	OH	NH-cyclopropyl
amino acid	Н	CH ₃	ОН	NH-methyl
amino acid	H	CH ₃	ОН	NH-ethyl
amino acid	H	CH ₃	ОН	NH-acetyl
amino acid	Н	CH ₃	ОН	ОН

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
amino acid	Н	CH ₃	ОН	OMe
amino acid	Н	CH ₃	OH	OEt
amino acid	Н	CH ₃	OH	O-cyclopropyl
amino acid	H	CH ₃	ОН	O-acetyl
amino acid	H	CH ₃	ОН	SH
amino acid	Н	CH ₃	OH	SMe
amino acid	Н	CH ₃	OH	SEt
amino acid	Н	CH ₃	OH	S-cyclopropyl
amino acid	H	CH ₃	OH	F
amino acid	Н	CH ₃	OH	Cl
amino acid	H	CH ₃	ОН	Br
amino acid	Н	CH ₃	OH	Ī
amino acid	acyl	CH ₃	OH	Н
amino acid	acyl	CH ₃	OH	NH ₂
amino acid	acyl	CH ₃	ОН	NH-cyclopropyl
amino acid	acyl	CH ₃	OH	NH-methyl
amino acid	acyl	CH ₃	OH	NH-ethyl
amino acid	acyl	CH ₃	OH	NH-acetyl
amino acid	acyl	CH ₃	OH	OH
amino acid	acyl	CH ₃	ОН	OMe
amino acid	acyl	CH ₃	OH	OEt
amino acid	acyl	CH ₃	OH	O-cyclopropyl
amino acid	acyl	CH ₃	ОН	O-acetyl
amino acid	acyl	CH ₃	OH	SH
amino acid	acyl	CH ₃	ОН	SMe
amino acid	acyl	CH ₃	ОН	SEt
amino acid	acyl	CH ₃	OH	S-cyclopropyl
amino acid	acyl	CH ₃	OH	F
amino acid	acyl	CH ₃	ОН	Cl
amino acid	acyl	CH ₃	.OH	Br
amino acid	acyl	CH ₃	OH	I
acyl	H	CF ₃	OH	H
acyl	H	CF ₃	OH	NH ₂
acyl	H	CF ₃	OH	NH-cyclopropyl
acyl	H	CF ₃	OH	NH-methyl
acyl	H	CF ₃	OH	NH-ethyl
acyl	H	CF ₃	OH	NH-acetyl
acyl	H	CF ₃	OH	OH
acyl	H	CF ₃	OH	OMe
acyl	H	CF ₃	ОН	OEt
acyl	H	CF ₃	OH	O-cyclopropyl
acyl	H	CF ₃	ОН	O-acetyl
acyl	H	CF ₃	ОН	SH
acyl	H	CF ₃	ОН	SMe
acyl	H	CF ₃	OH	SEt
acyl	H	CF ₃	OH	S-cyclopropyl
acyl	H	CF ₃	OH	F

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	H	CF ₃	OH	Cl
acyl	H	CF ₃	ОН	Br
acyl	H	CF ₃	OH	I
acyl	acyl	CF ₃	OH	Н
acyl	acyl	CF ₃	OH	NH ₂
acyl	acyl	CF ₃	OH	NH-cyclopropyl
acyl	acyl	CF ₃	OH	NH-methyl
acyl	acyl	CF ₃	OH	NH-ethyl
acyl	acyl	CF ₃	OH	NH-acetyl
acyl	acyl	CF ₃	OH	ОН
acyl	acyl	CF ₃	OH	OMe
acyl	acyl	CF ₃	ОН	OEt
acyl	acyl	CF ₃	OH	O-cyclopropyl
acyl	acyl	CF ₃	OH	O-acetyl
acyl	acyl	CF ₃	OH	SH
acyl	acyl	CF ₃	OH	SMe
acyl	acyl	CF ₃	OH	SEt
acyl	acyl	CF ₃	OH	S-cyclopropyl
acyl	acyl	CF ₃	OH	F
acyl	acyl	CF ₃	OH	Cl
acyl	acyl	CF ₃	ОН	Br
acyl	acyl	CF ₃	OH	I
acyl	amino acid	CF ₃	OH	H
acyl	amino acid	CF ₃	OH	NH ₂
acyl	amino acid	CF ₃	OH	NH-cyclopropyl
acyl	amino acid	CF ₃	ОН	NH-methyl
acyl	amino acid	CF ₃	OH	NH-ethyl
acyl	amino acid	CF ₃	OH	NH-acetyl
acyl	amino acid	CF ₃	ОН	OH
acyl	amino acid	CF ₃	OH	OMe
acyl	amino acid	CF ₃	ОН	OEt
acyl	amino acid	CF ₃	OH	O-cyclopropyl
acyl	amino acid	CF ₃	OH	O-acetyl
acyl	amino acid	CF ₃	OH	SH
acyl	amino acid	CF ₃	OH	SMe
acyl	amino acid	CF ₃	OH	SEt
acyl	amino acid	CF ₃	OH	S-cyclopropyl
acyl	amino acid	CF ₃	OH	F
acyl	amino acid	CF ₃	OH	Cl
acyl	amino acid	CF ₃	ОН	Br
acyl	amino acid	CF ₃	ОН	I
H	acyl	CF ₃	OH	Н
H	acyl	CF ₃	OH	NH ₂
Н	acyl	CF ₃	OH	NH-cyclopropyl
H	acyl	CF ₃	OH	NH-methyl
H	acyl	CF ₃	OH	NH-ethyl
H	acyl	CF ₃	OH	NH-acetyl

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
Н	acyl	CF ₃	OH	OH
Н	acyl	CF ₃	OH	OMe
H	acyl	CF ₃	OH	OEt
Н	acyl	CF ₃	OH	O-cyclopropyl
Н	acyl	CF ₃	ОН	O-acetyl
Н	acyl	CF ₃	OH	SH
Н	acyl	CF ₃	OH	SMe
H	acyl	CF ₃	OH	SEt
H	acyl	CF ₃	OH	S-cyclopropyl
H	acyl	CF ₃	OH	F
Н	acyl	CF ₃	OH	CI
H	acyl	CF ₃	ОН	Br
H	acyl	CF ₃	OH	I
H	amino acid	CF ₃	OH	H
H	amino acid	CF ₃	OH	NH ₂
H	amino acid	CF ₃	OH	NH-cyclopropyl
H	amino acid	CF ₃	ОН	NH-methyl
H	amino acid	CF ₃	OH	NH-ethyl
H	amino acid	CF ₃	OH	NH-acetyl
H	amino acid	CF ₃	ОН	OH
Н	amino acid	CF ₃	OH	OMe
H	amino acid	CF ₃	OH	OEt
Н	amino acid	CF ₃	OH	O-cyclopropyl
H	amino acid	CF ₃	OH	O-acetyl
H	amino acid	CF ₃	ОН	SH
H	amino acid	CF ₃	OH	SMe
H	amino acid	Cr3	ОН	SEt
Н	amino acid	CF ₃	ОН	S-cyclopropyl
H	amino acid	CF ₃	OH	F
H	amino acid	CF ₃	ОН	Cl
H	amino acid	CF ₃	OH	Br
H	amino acid	CF ₃	OH	I
amino acid	amino acid	CF ₃	OH	H
amino acid	amino acid	CF ₃	OH	NH ₂
amino acid	amino acid	CF ₃	OH	NH-cyclopropyl
amino acid	amino acid	CF ₃	OH	NH-methyl
amino acid	amino acid	CF ₃	OH	NH-ethyl
amino acid	amino acid	CF ₃	OH	NH-acetyl
amino acid	amino acid	CF ₃	OH	OH
amino acid	amino acid	CF ₃	OH	OMe
amino acid	amino acid	CF ₃	OH	OEt
amino acid	amino acid	CF ₃	OH	O-cyclopropyl
amino acid	amino acid	CF ₃	OH	O-acetyl
amino acid	amino acid	CF ₃	OH	SH
amino acid	amino acid	CF ₃	OH	SMe
amino acid	amino acid	CF ₃	OH	SEt
amino acid	amino acid	CF ₃	OH	S-cyclopropyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	amino acid	CF ₃	OH	F
amino acid	amino acid	CF ₃	OH	Cl
amino acid	amino acid	CF ₃	OH	Br
amino acid	amino acid	CF ₃	OH	I
amino acid	Н	CF ₃	OH	H
amino acid	H	CF ₃	OH	NH ₂
amino acid	H	CF ₃	OH	NH-cyclopropyl
amino acid	H	CF ₃	OH	NH-methyl
amino acid	H	CF ₃	OH	NH-ethyl
amino acid	H	CF ₃	OH	NH-acetyl
amino acid	H	CF ₃	OH	OH
amino acid	H	CF ₃	OH	OMe
amino acid	H	CF ₃	OH	OEt
amino acid	H	CF ₃	OH	
amino acid	H	CF ₃	OH	O-cyclopropyl O-acetyl
amino acid	H	 	OH	SH
amino acid	H	CF ₃	OH	SMe
amino acid	H	CF ₃	OH	SEt
amino acid	H	CF ₃	OH	S-cyclopropyl
amino acid	H	CF ₃	OH	F S-cyclopropyl
amino acid	H	CF ₃	OH	Cl
amino acid	H	CF ₃	OH	Br
amino acid	H	CF ₃	OH	I
amino acid	acyl	CF ₃	OH	H
amino acid	acyl	CF ₃	ОН	NH ₂
amino acid	acyl	CF ₃	OH	
amino acid	acyl	CF ₃	OH	NH-cyclopropyl
amino acid	acyl	CF ₃	OH	NH-methyl
amino acid	acyl	CF ₃	OH	NH-ethyl
amino acid	acyl	CF ₃	OH	NH-acetyl OH
amino acid	acyl	CF ₃	OH	OMe
amino acid	 	CF ₃	OH	
amino acid	acyl		 	OEt
amino acid	acyl	CF ₃	OH	O-cyclopropyl
amino acid	acyl	CF ₃	OH	O-acetyl
amino acid	acyl	CF ₃	OH	SH
	acyl	CF ₃	OH	SMe
amino acid	acyl	CF ₃	OH	SEt
amino acid	acyl	CF ₃	OH	S-cyclopropyl
amino acid	acyl	CF ₃	OH	F
amino acid	acyl	CF ₃	OH	C1
amino acid	acyl	CF ₃	OH	Br
amino acid	acyl	CF ₃	OH	I
acyl	H	Br	OH	H
acyl	H	Br	ОН	NH ₂
acyl	H	Br	OH	NH-cyclopropyl
acyl	H	Br	OH	NH-methyl
acyl	H	Br	OH	NH-ethyl

R ²	R ³	X^1	X ²	Y
acyl	H	Br	ОН	NH-acetyl
acyl	Н	Br	OH	OH
acyl	Н	Br	OH	OMe
acyl	Н	Br	ОН	OEt
acyl	Н	Br	ОН	O-cyclopropyl
acyl	H	Br	OH	O-acetyl
acyl	H	Br	ОН	SH
acyl	Н	Br	OH	SMe
acyl	H	Br	OH	SEt
acyl	Н	Br	ОН	S-cyclopropyl
acyl	H	Br	ОН	F
acyl	Н	Br	ОН	Cl
acyl	H	Br	ОН	Br
acyl	Н	Br	OH	I
acyl	acyl	Br	ОН	Н
acyl	acyl	Br	ОН	NH ₂
acyl	acyl	Br	OH	NH-cyclopropyl
acyl	acyl	Br	OH	NH-methyl
acyl	acyl	Br	OH	NH-ethyl
acyl	acyl	Br	ОН	NH-acetyl
acyl	acyl	Br	OH	OH
acyl	acyl	Br	ОН	OMe
acyl	acyl	Br	OH	OEt
acyl	acyl	Br	ОH	O-cyclopropyl
acyl	acyl	Br	OH	O-acetyl
acyl	acyl	Br	OH	SH
acyl	acyl	Br	OH	SMe
acyl	acyl	Br	OH	SEt
acyl	acyl	Br	OH	S-cyclopropyl
acyl	acyl	Br	OH	F
acyl	acyl	Br	OH	Cl
acyl	acyl	Br	ОН	Br
acyl	acyl	Br	OH	I
acyl	amino acid	Br	OH	H
acyl	amino acid	Br	ОН	NH ₂
acyl	amino acid	Br	OH	NH-cyclopropyl
acyl	amino acid	Br	OH	NH-methyl
acyl	amino acid	Br	OH	NH-ethyl
acyl	amino acid	Br	OH	NH-acetyl
acyl	amino acid	Br	OH	OH
acyl	amino acid	Br	OH	OMe
acyl	amino acid	Br	OH	OEt
acyl	amino acid	Br	OH	O-cyclopropyl
acyl	amino acid	Br	OH	O-acetyl
acyl	amino acid	Br	OH	SH
acyl	amino acid	Br	OH	SMe
acyl	amino acid	Br	OH	SEt

\mathbb{R}^2	\mathbb{R}^3	$\mathbf{X}^{\mathbf{I}}$	X ²	Y
acyl	amino acid	Br	OH	S-cyclopropyl
acyl	amino acid	Br	OH	F
acyl	amino acid	Br	OH	Cl
acyl	amino acid	Br	OH	Br
acyl	amino acid	Br	OH	I
Н	acyl	Br	OH	Н
H	acyl	Br	OH	NH ₂
H	acyl	Br	OH .	NH-cyclopropyl
H	acyl	Br	OH	NH-methyl
Η .	acyl	Br	OH	NH-ethyl
Н	acyl	Br	OH	NH-acetyl
Н	acyl	Br	OH	OH
H	acyl	Br	OH	OMe
Н	acyl	Br	OH	OEt
Н	acyl	Br	OH	O-cyclopropyl
Н	acyl	Br	ОН	O-acetyl
Н	acyl	Br	OH	SH
H	acyl	Br	ОН	SMe
Н	acyl	Br	OH	SEt
Н	acyl	Br	OH	S-cyclopropyl
H	acyl	Br	ОН	F
H_	acyl	Br	OH	Cl
Н	acyl	Br	ОН	Br
H	acyl	Br	OH	I
Н	amino acid	Br	OH	H
H	amino acid	Br	OH	NH ₂
H	amino acid	Br	OH	NH-cyclopropyl
H	amino acid	Br	OH	NH-methyl
H	amino acid	Br	ОН	NH-ethyl
H	amino acid	Br	OH	NH-acetyl
H	amino acid	Br	OH	OH
Н	amino acid	Br	OH	OMe
Н	amino acid	Br	OH	OEt
H	amino acid	Br	OH	O-cyclopropyl
H	amino acid	Br	ОН	O-acetyl
H	amino acid	Br	OH	SH
H	amino acid	Br	OH	SMe
H	amino acid	Br	OH	SEt
H	amino acid	Br	OH	S-cyclopropyl
H	amino acid	Br	OH	F
H	amino acid	Br	OH	Cl
H	amino acid	Br	OH	Br
H	amino acid	Br	OH	I
amino acid	amino acid	Br	ОН	Н
amino acid	amino acid	Br	OH	NH ₂
amino acid	amino acid	Br	OH	NH-cyclopropyl
amino acid	amino acid	Br	OH	NH-methyl

R ² .	\mathbb{R}^3	X	X ²	Y
amino acid	amino acid	Br	OH	NH-ethyl
amino acid	amino acid	Br	OH	NH-acetyl
amino acid	amino acid	Br	OH	OH
amino acid	amino acid	Br	ОН	OMe
amino acid	amino acid	Br	OH	OEt
amino acid	amino acid	Br	ОН	O-cyclopropyl
amino acid	amino acid	Br	OH	O-acetyl
amino acid	amino acid	Br	OH	SH
amino acid	amino acid	Br	OH	SMe
amino acid	amino acid	Br	ОН	SEt
amino acid	amino acid	Br	OH	S-cyclopropyl
amino acid	amino acid	Br	OH	F
amino acid	amino acid	Br	OH	Cl
amino acid	amino acid	Br	OH	Br
amino acid	amino acid	Br	OH	I
amino acid	Н	Br	OH	H
amino acid	Н	Br	ОН	NH ₂
amino acid	H	Br	OH	NH-cyclopropyl
amino acid	Н	Br	OH	NH-methyl
amino acid	Н	Br	OH	NH-ethyl
amino acid	H	Br	OH	NH-acetyl
amino acid	Н	Br	OH	OH
amino acid	H	Br	OH	OMe
amino acid	H	Br	OH	OEt
amino acid	Н	Br	OH	O-cyclopropyl
amino acid	Н	Br	OH	O-acetyl
amino acid	H	Br	OH	SH
amino acid	H	Br	OH	SMe
amino acid	H	Br	OH	SEt
amino acid	Н	Br	OH	S-cyclopropyl
amino acid	H	Br	OH	F
amino acid	H	Br	OH	Cl
amino acid	H	Br	OH	Br
amino acid	H	Br	ОН	I
amino acid	acyl	Br	OH	Н
amino acid	acyl	Br	OH	NH ₂
amino acid	acyl	Br	ОН	NH-cyclopropyl
amino acid	acyl	Br	ОН	NH-methyl
amino acid	acyl	Br	OH	NH-ethyl
amino acid	acyl	Br	ОН	NH-acetyl
amino acid	acyl	Br	ОН	ОН
amino acid	acyl	Br	ОН	OMe
amino acid	acyl	Br	ОН	OEt
amino acid	acyl	Br	ОН	O-cyclopropyl
amino acid	acyl	Br	OH	O-acetyl
amino acid	acyl	Br	OH	SH
amino acid	acyl	Br	OH	SMe

R ²	\mathbb{R}^3	X¹	X^2	Y
amino acid	acyl	Br	OH	SEt
amino acid	acyl	Br	OH	S-cyclopropyl
amino acid	acyl	Br	OH	F
amino acid	acyl	Br	OH	Cl
amino acid	acyl	Br	OH	Br
amino acid	acyl	Br	OH	I
acyl	H	Cl	ОН	Н
acyl	Н	Cl	OH	NH ₂
acyl	Н	Cl	OH	NH-cyclopropyl
acyl	Н	Cl	OH	NH-methyl
acyl	H	Cl	OH	NH-ethyl
acyl	H	Cl	OH	NH-acetyl
acyl	Н	Cl	OH	OH
acyl	Н	Cl	OH	OMe
acyl	H	Cl	OH	OEt
acyl	Н	Cl	OH	O-cyclopropyl
acyl	H	Cl	OH	O-acetyl
acyl	H	Cl	OH	SH
acyl	Н	Cl	OH	SMe
acyl	H	Cl	OH	SEt
acyl	H	Cl	OH	S-cyclopropyl
acyl	H	Cl	OH	F
acyl	H	Cl	OH	Cl
acyl	H	Cl	OH	Br
acyl	H	Cl	OH	I
acyl	acyl	Cl	OH	Н
acyl	acyl	Cl	OH	NH ₂
acyl	acyl	C1	OH	NH-cyclopropyl
acyl	acyl	Cl	OH	NH-methyl
acyl	acyl	Cl	OH	NH-ethyl
acyl	acyl	Cl	OH	NH-acetyl
acyl	acyl	C1	OH	OH
acyl	acyl	Cl	OH	OMe
acyl	acyl	Cl	OH	OEt
acyl	acyl	Cl	OH	O-cyclopropyl
acyl	acyl	Cl	OH	O-acetyl
acyl	acyl	C1	OH	SH
acyl	acyl	Cl	OH	SMe
acyl	acyl	Cl	OH	SEt
acyl	acyl	Cl	OH	S-cyclopropyl
acyl	acyl		OH	F
acyl	acyl	C1	OH	Cl
acyl	acyl	Cl	OH	Br
acyl	acyl	Cl	OH	I
acyl	amino acid	Cl	OH	Н
acyl	amino acid	Cl	OH	NH ₂
acyl	amino acid	Cl	OH	NH-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	amino acid	Cl	OH	NH-methyl
acyl	amino acid	Cl	ОН	NH-ethyl
acyl	amino acid	Cl	OH	NH-acetyl
acyl	amino acid	Cl	OH	OH
acyl	amino acid	Cl	OH	OMe
acyl	amino acid	Cl	OH	OEt
acyl	amino acid	Cl	OH	O-cyclopropyl
acyl	amino acid	Cl	OH	O-acetyl
acyl	amino acid	Cl	ОН	SH
acyl	amino acid	Cl	OH	SMe
acyl	amino acid	Cl	OH	SEt
acyl	amino acid	Cl	OH	S-cyclopropyl
acyl	amino acid	Cl	ОН	F
acyl	amino acid	Cl	OH	Cl
acyl	amino acid	Cl	OH	Br
acyl	amino acid	Cl	OH	I
Н	acyl	Cl	OH	Н
Н	acyl	Cl	OH	NH ₂
Н	acyl	Cl	OH	NH-cyclopropyl
H	acyl	Cl	ОН	NH-methyl
Н	acyl	C1	OH	NH-ethyl
H	acyl	Cl	OH	NH-acetyl
H	acyl	Cl	OH	ОН
Н	acyl	Cl	OH	OMe
H	acyl	Cl	ОН	OEt
H	acyl	Cl	OH	O-cyclopropyl
Н	acyl	Cl	ОН	O-acetyl
H	acyl	Cl	ОН	SH
H	acyl	Cl	OH	SMe
H	acyl	Cl	ОН	SEt
H	acyl	Cl	OH	S-cyclopropyl
H	acyl	Cl	OH	F
H	acyl	Cl	ОН	Cl
H	acyl	Cl	OH	Br
H	acyl	Cl	ОН	I
Н	amino acid	Cl	OH	H
H	amino acid	CI	OH	NH ₂
H	amino acid	Cl	ОН	NH-cyclopropyl
H	amino acid	Cl	ОН	NH-methyl
H	amino acid	Cl	OH	NH-ethyl
H	amino acid	Cl	OH	NH-acetyl
H	amino acid	Cl	ОН	OH
H	amino acid	Cl	ОН	OMe
H	amino acid	Cl	ОН	OEt
H	amino acid	Cl	OH	O-cyclopropyl
Н	amino acid	Cl	ОН	O-acetyl
H	amino acid	Cl	ОН	SH

\mathbb{R}^2	R ³	X	X^2	Y
H	amino acid	Cl	OH	SMe
H	amino acid	Cl	OH	SEt
H	amino acid	Cl	OH	S-cyclopropyl
Н	amino acid	Cl	OH	F
H	amino acid	Cl	OH	Cl
H	amino acid	Cl	OH	Br
H	amino acid	Cl	OH	I
amino acid	amino acid	Cl	OH	H
amino acid	amino acid	Cl	OH	NH ₂
amino acid	amino acid	Cl	OH	NH-cyclopropyl
amino acid	amino acid	Cl	OH	NH-methyl
amino acid	amino acid	Cl	OH	NH-ethyl
amino acid	amino acid	CI	OH	NH-acetyl
amino acid	amino acid	Cl	OH	OH
amino acid	amino acid	Cl	OH	OMe
amino acid	amino acid	Cl	OH	OEt
amino acid	amino acid	Cl	OH	O-cyclopropyl
amino acid	amino acid	CI	OH	
amino acid	amino acid	Cl	OH	O-acetyl SH
amino acid	amino acid	Cl	OH	SMe
amino acid	amino acid	Cl	OH	SEt
amino acid	amino acid	Cl	OH	
amino acid	amino acid	Cl	OH	S-cyclopropyl F
amino acid	amino acid	Cl	OH	Cl
amino acid	amino acid	Cl	OH	Br
amino acid	amino acid	Cl	OH	
amino acid	H	Cl	OH	I
amino acid	H	Cl	OH	H
amino acid	Н	CI		NH ₂
	H		OH	NH-cyclopropyl
amino acid	H	Cl	OH	NH-methyl
amino acid		Cl	OH	NH-ethyl
amino acid	H	Cl	OH	NH-acetyl
amino acid	H	Cl	OH	OH
amino acid	H	Cl	OH	OMe
amino acid	H	Cl	OH	OEt
amino acid	H	Cl	OH	O-cyclopropyl
amino acid	H	Cl	OH	O-acetyl
amino acid	H	Cl	OH	SH
amino acid	H	C1	OH	SMe
amino acid	H	Cl	OH	SEt
amino acid	H	C1	OH	S-cyclopropyl
amino acid	H	C1	OH	F
amino acid	H	Cl	OH	Cl
amino acid	Н	Cl	OH	Br
amino acid	Н	Cl	ОН	I
amino acid	acyl	Cl	OH	Н
amino acid	acyl	Cl	OH	NH ₂

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	acyl	Cl	ОН	NH-cyclopropyl
amino acid	acyl	Cl	OH	NH-methyl
amino acid	acyl	Cl	OH	NH-ethyl
amino acid	acyl	Cl	OH	NH-acetyl
amino acid	acyl	Cl	OH	OH
amino acid	acyl	Cl	OH	OMe
amino acid	acyl	CI	OH	OEt
amino acid	acyl	CI	OH	O-cyclopropyl
amino acid	acyl	Cl	OH	O-acetyl
amino acid	acyl	Cl	OH	SH
amino acid	acyl	Cl	OH	SMe
amino acid	acyl	Cl	OH	SEt
amino acid	acyl	Cl	OH	S-cyclopropyl
amino acid	acyl	Cl	OH	F S-cyclopropyr
amino acid	acyl	Cl	OH	Cl
amino acid	acyl	Cl	OH	Br
amino acid	acyl	Cl	OH	I
acyl	H	F	OH	H
acyl	H	F	OH	NH ₂
acyl	H	F	OH	NH-cyclopropyl
acyl	H	F	OH	NH-methyl
acyl	H	F	OH	NH-ethyl
acyl	H	F	OH	NH-acetyl
acyl	H	F	OH	OH
acyl	H	F	OH	OMe
acyl	H	F	OH	OEt
acyl	H	F	OH	O-cyclopropyl
acyl	H	F	OH	O-acetyl
acyl	H	F	OH	SH
acyl	H	F	OH	SMe
acyl	H	F	OH	SEt
acyl	H	F	OH	S-cyclopropyl
acyl	H	F	OH	F
acyl	H	F	OH	Cl
acyl	Н	F	OH	Br
acyl	H	F	OH	I
acyl	acyl	F	OH	H
acyl	acyl	F	OH	NH ₂
acyl	acyl	F	OH	NH-cyclopropyl
acyl	acyl	F	OH	NH-methyl
acyl	acyl	F	OH	NH-ethyl
acyl	acyl	$\frac{1}{F}$	OH	NH-acetyl
acyl	acyl	F	OH	OH
acyl	acyl	F	OH	OMe
acyl	acyl	F	OH	OEt
acyl	acyl	F	OH	O-cyclopropyl
acyl		F		
acyi	acyl	<u> </u>	OH	O-acetyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	acyl	F	OH	SH
acyl	acyl	F	OH	SMe
acyl	acyl	F	OH	SEt
acyl	acyl	F	OH	S-cyclopropyl
acyl	acyl	F	OH	F
acyl	acyl	F	OH	Cl
acyl	acyl	F	OH	Br
acyl	acyl	F	OH	I
acyl	amino acid	F	OH	H
acyl	amino acid	F	OH	NH ₂
acyl	amino acid	F	OH	NH-cyclopropyl
acyl	amino acid	F	OH	NH-methyl
acyl	amino acid	F	OH	NH-ethyl
acyl	amino acid	F	OH	NH-acetyl
acyl	amino acid	F	OH	OH
acyl	amino acid	F	OH	OMe
acyl	amino acid	F	OH	OEt
acyl	amino acid	\overline{F}	OH	O-cyclopropyl
acyl	amino acid	F	OH	O-acetyl
acyl	amino acid	F	OH	SH
acyl	amino acid	F	OH	SMe
acyl	amino acid	F	ОН	SEt
acyl	amino acid	F	ОН	S-cyclopropyl
acyl	amino acid	F	OH	F
acyl	amino acid	F	OH	Cl
acyl	amino acid	F	OH	Br
acyl	amino acid	F	OH	I
H	acyl	F	OH	Н
Н	acyl	F	ОН	NH ₂
H	acyl	F	OH	NH-cyclopropyl
Н	acyl	F	OH	NH-methyl
H	acyl	F	OH	NH-ethyl
Н	acyl	F	OH	NH-acetyl
H	acyl	F	ОН	OH
H	acyl	F	OH	OMe
H	acyl	F	OH	OEt
Н	acyl	F	OH	O-cyclopropyl
Н	acyl	F	OH	O-acetyl
Н	acyl	F	OH	SH
H	acyl	F	OH	SMe
Н	acyl	F	OH	SEt
H	acyl	F	OH	S-cyclopropyl
H	acyl	$\frac{1}{F}$	OH	F F
H	acyl	F	OH	CI
H	acyl	F	OH	Br
H	acyl	F	OH	I
H	amino acid	F	OH	H
TT	ammo acid	F		

R ²	\mathbb{R}^3	X	X ²	Y
H	amino acid	F	ОН	NH ₂
H	amino acid	F	OH	NH-cyclopropyl
Н	amino acid	F	OH	NH-methyl
Н	amino acid	F	OH	NH-ethyl
H	amino acid	F	OH	NH-acetyl
Н	amino acid	F	OH	OH
H	amino acid	F	OH	OMe
H	amino acid	F	OH	OEt
H	amino acid	F	OH	O-cyclopropyl
Н	amino acid	F	OH	O-acetyl
H	amino acid	F	OH	SH
H	amino acid	F	OH	SMe
H	amino acid	F	OH	SEt
H	amino acid	F	OH	S-cyclopropyl
H	amino acid	$\frac{1}{F}$	OH	F S-cyclopropyi
H	amino acid	$\frac{1}{F}$	OH	Cl
H	amino acid	F	OH	Br
H	amino acid	F	OH	I
amino acid	amino acid	$\frac{1}{F}$	OH	H
amino acid	amino acid	F	OH	NH ₂
amino acid	amino acid	F	OH	NH-cyclopropyl
amino acid	amino acid	F	OH	NH-methyl
amino acid	amino acid	F	OH	NH-ethyl
amino acid	amino acid	F	OH	NH-acetyl
amino acid	amino acid	F	OH	OH
amino acid	amino acid	F	OH	OMe
amino acid	amino acid	F	OH	OEt
amino acid	amino acid	F	OH	O-cyclopropyl
amino acid	amino acid	F	OH	O-acetyl
amino acid	amino acid	$\frac{1}{F}$	OH	SH
amino acid	amino acid	F	OH	SMe
amino acid	amino acid	F	OH	SEt
amino acid	amino acid	F	OH	S-cyclopropyl
amino acid	amino acid	F	OH	F
amino acid	amino acid	F	OH	Cl
amino acid	amino acid	F	OH	Br
amino acid	amino acid	F	OH	I
amino acid	Н	F	OH	H
amino acid	H	F	OH	NH ₂
amino acid	H	F	OH	NH-cyclopropyl
amino acid	H	$\frac{1}{F}$	OH	NH-methyl
amino acid	$\frac{H}{H}$	F	OH	NH-ethyl
amino acid	H	F	OH	
amino acid	H	F		NH-acetyl
amino acid	H	F	OH	OH
amino acid	H	F	OH	OMe
amino acid	H	$\frac{\mathbf{F}}{\mathbf{F}}$	OH	OEt
antino actu	Lī	<u> </u>	OH	O-cyclopropyl

R ²	\mathbb{R}^3	X ¹	X ²	Y
amino acid	H	F	OH	O-acetyl
amino acid	Н	F	OH	SH
amino acid	H	F	OH	SMe
amino acid	Н	F	OH	SEt
amino acid	Н	F	OH	S-cyclopropyl
amino acid	Н	F	OH	F
amino acid	Н	F	OH	Cl
amino acid	Н	F	OH	Br
amino acid	H	F	OH	I
amino acid	acyl	F	OH	Н
amino acid	acyl	F	OH	NH ₂
amino acid	acyl	F	OH	NH-cyclopropyl
amino acid	acyl	F	OH	NH-methyl
amino acid	acyl	F	OH	NH-ethyl
amino acid	acyl	F	ОН	NH-acetyl
amino acid	acyl	F	OH	OH
amino acid	acyl	F	ОН	OMe
amino acid	acyl	F	OH	OEt
amino acid	acyl	F	ОН	O-cyclopropyl
amino acid	acyl	F	OH	O-acetyl
amino acid	acyl	F	ОН	SH
amino acid	acyl	F	OH	SMe
amino acid	acyl	F	OH	SEt
amino acid	acyl	F	OH	S-cyclopropyl
amino acid	acyl	F	OH	F
amino acid	acyl	F	ОН	Cl
amino acid	acyl	F	ОН	Br
amino acid	acyl	F	OH	I
acyl	Н	NH ₂	ОН	Н
acyl	H	NH ₂	OH	NH ₂
acyl	Н	NH ₂	OH	NH-cyclopropyl
acyl	Н	NH ₂	OH	NH-methyl
acyl	Н	NH ₂	OH	NH-ethyl
acyl	Н	NH ₂	ОН	NH-acetyl
acyl	H	NH ₂	OH	ОН
acyl	Н	NH ₂	OH	OMe
acyl	H	NH ₂	OH	OEt
acyl	H	NH ₂	OH	O-cyclopropyl
acyl	Н	NH ₂	OH	O-acetyl
acyl	H	NH ₂	OH	SH
acyl	H	NH ₂	OH	SMe
acyl	Н	NH ₂	OH	SEt
acyl	H	NH ₂	OH	S-cyclopropyl
acyl	H	NH ₂	OH	F
acyl	Н	NH ₂	OH	Cl
acyl	H	NH ₂	ОН	Br
acyl	H	NH ₂	ОН	I

R ²	R ³	X ¹	X ²	Y
acyl	acyl	NH ₂	ОН	Н
acyl	acyl	NH ₂	OH	NH ₂
acyl	acyl	NH ₂	ОН	NH-cyclopropyl
acyl	acyl	NH ₂	OH	NH-methyl
acyl	acyl	NH ₂	OH	NH-ethyl
acyl	acyl	NH ₂	OH	NH-acetyl
acyl	acyl	NH ₂	OH	ОН
acyl	acyl	NH ₂	OH	OMe
acyl	acyl	NH ₂	OH	OEt
acyl	acyl	NH ₂	OH	O-cyclopropyl
acyl	acyl	NH ₂	OH	O-acetyl
acyl	acyl	NH ₂	OH	SH
acyl	acyl	NH ₂	ОН	SMe
acyl	acyl	NH ₂	OH	SEt
acyl	acyl	NH ₂	ОН	S-cyclopropyl
acyl	acyl	NH ₂	OH	F
acyl	acyl	NH ₂	OH	Cl
acyl	acyl	NH ₂	OH	Br
acyl	acyl	NH ₂	OH	I
acyl	amino acid	NH ₂	OH	Н
acyl	amino acid	NH ₂	OH	NH ₂
acyl	amino acid	NH ₂	ОН	NH-cyclopropyl
acyl	amino acid	NH ₂	ОН	NH-methyl
acyl	amino acid	NH ₂	OH	NH-ethyl
acyl	amino acid	NH ₂	ОН	NH-acetyl
acyl	amino acid	NH ₂	OH	OH
acyl	amino acid	NH ₂	ОН	OMe
acyl	amino acid	NH ₂	OH	OEt
acyl	amino acid	NH ₂	ОН	O-cyclopropyl
acyl	amino acid	NH ₂	OH	O-acetyl
acyl	amino acid	NH ₂	OH	SH
acyl	amino acid	NH ₂	OH	SMe
acyl	amino acid	NH ₂	OH	SEt
acyl	amino acid	NH ₂	OH	S-cyclopropyl
acyl	amino acid	NH ₂	OH	F
acyl	amino acid	NH ₂	ОН	Cl
acyl	amino acid	NH ₂	ОН	Br
acyl	amino acid	NH ₂	OH	I
H	acyl	NH ₂	ОН	H
H	acyl	NH ₂	ОН	NH ₂
H	acyl	NH ₂	ОН	NH-cyclopropyl
H	acyl	NH ₂	ОН	NH-methyl
H	acyl	NH ₂	ОН	NH-ethyl
H	acyl	NH ₂	OH	NH-acetyl
H	acyl	NH ₂	OH ,	ОН
H	acyl	NH ₂	OH	OMe
Н	acyl	NH ₂	OH	OEt

\mathbb{R}^2	R ³	X ¹	X ²	Y
H	acyl	NH ₂	OH	O-cyclopropyl
H	acyl	NH ₂	OH	O-acetyl
H	acyl	NH ₂	OH	SH
H	acyl	NH ₂	ОН	SMe
H	acyl	NH ₂	OH	SEt
H	acyl	NH ₂	OH	S-cyclopropyl
H	acyl	NH ₂	OH	F
H	acyl	NH ₂	OH	Cl
H	acyl	NH ₂	OH	Br
H	acyl	NH ₂	OH	I
H	amino acid	NH ₂	OH	H
H	amino acid	NH ₂	OH	NH ₂
H	amino acid	NH ₂	OH	NH-cyclopropyl
Н	amino acid	NH ₂	OH	NH-methyl
Н	amino acid	NH ₂	OH	NH-ethyl
Н	amino acid	NH ₂	OH	NH-acetyl
H	amino acid	NH ₂	OH	OH
H	amino acid	NH ₂	OH	OMe
H	amino acid	NH ₂	OH	OEt
Н	amino acid	NH ₂	OH	O-cyclopropyl
H	amino acid	NH ₂	OH	O-acetyl
H	amino acid	NH ₂	ОН	SH
H	amino acid	NH ₂	OH	SMe
H	amino acid	NH ₂	OH	SEt
H	amino acid	NH ₂	OH	S-cyclopropyl
H	amino acid	NH ₂	OH	F
H	amino acid	NH ₂	OH	Cl
H	amino acid	NH ₂	OH	Br
H	amino acid	NH ₂	OH	I
amino acid	amino acid	NH ₂	OH	H
amino acid	amino acid	NH ₂	OH	NH ₂
amino acid	amino acid	NH ₂	OH	NH-cyclopropyl
amino acid	amino acid	NH ₂	OH	NH-methyl
amino acid	amino acid	NH ₂	OH	NH-ethyl
amino acid	amino acid	NH ₂	ОН	NH-acetyl
amino acid	amino acid	NH ₂	OH	OH
amino acid	amino acid	NH ₂	OH	OMe
amino acid	amino acid	NH ₂	ОН	OEt
amino acid	amino acid	NH ₂	OH	O-cyclopropyl
amino acid	amino acid	NH ₂	ОН	O-acetyl
amino acid	amino acid	NH ₂	OH	SH
amino acid	amino acid	NH ₂	OH	SMe
amino acid	amino acid	NH ₂	ОН	SEt
amino acid	amino acid	NH ₂	OH	S-cyclopropyl
amino acid	amino acid	NH ₂	OH	F
amino acid	amino acid	NH ₂	OH	Cl
amino acid	amino acid	NH ₂	OH	Br

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	amino acid	NH ₂	OH	I
amino acid	H	NH ₂	OH	H
amino acid	Н	NH ₂	OH	NH ₂
amino acid	H	NH ₂	OH	NH-cyclopropyl
amino acid	H	NH ₂	OH	NH-methyl
amino acid	H	NH ₂	OH	NH-ethyl
amino acid	H	NH ₂	ОН	NH-acetyl
amino acid	Н	NH ₂	OH	OH
amino acid	H	NH ₂	OH	OMe
amino acid	Н	NH ₂	OH	OEt
amino acid	H	NH ₂	OH	O-cyclopropyl
amino acid	Н	NH ₂	OH	O-acetyl
amino acid	Н	NH ₂	OH	SH
amino acid	H	NH ₂	OH	SMe
amino acid	H	NH ₂	OH	SEt
amino acid	H	NH ₂	OH	S-cyclopropyl
amino acid	H	NH ₂	OH	F
amino acid	H	NH ₂	ОН	Cl
amino acid	H	NH ₂	OH	Br
amino acid	H	NH ₂	OH	I
amino acid	acyl	NH ₂	OH	Н
amino acid	acyl	NH ₂	OH	NH ₂
amino acid	acyl	NH ₂	ОН	NH-cyclopropyl
amino acid	acyl	NH ₂	OH	NH-methyl
amino acid	acyl	NH ₂	OH	NH-ethyl
amino acid	acyl	NH ₂	OH	NH-acetyl
amino acid	acyl	NH ₂	OH	OH
amino acid	acyl	NH ₂	OH	OMe
amino acid	acyl	NH ₂	ОН	OEt
amino acid	acyl	NH ₂	ОН	O-cyclopropyl
amino acid	acyl	NH ₂	ОН	O-acetyl
amino acid	acyl	NH ₂	ОН	SH
amino acid	acyl	NH ₂	OH	SMe
amino acid	acyl	NH ₂	OH	SEt
amino acid	acyl	NH ₂	ОН	S-cyclopropyl
amino acid	acyl	NH ₂	OH	F
amino acid	acyl	NH ₂	ОН	Cl
amino acid	acyl	NH ₂	OH	Br
amino acid	acyl	NH ₂	ОН	I
acyl	H	SH	OH	H
acyl	H	SH	OH	NH ₂
acyl	H	SH	ОН	NH-cyclopropyl
acyl	H	SH	OH	NH-methyl
acyl	H	SH	OH	NH-ethyl
acyl	H	SH	OH	NH-acetyl
acyl	H	SH	ОН	OH
acyl	H	SH	OH	OMe

R ²	R ³	X ¹	X ²	Y
acyl	Н	SH	OH	OEt
acyl	H	SH	OH	O-cyclopropyl
acyl	Н	SH	ОН	O-acetyl
acyl	Н	SH	OH	SH
acyl	Н	SH	OH	SMe
acyl	H	SH	OH	SEt
acyl	Н	SH	OH	S-cyclopropyl
acyl	Н	SH	OH	F
acyl	H	SH	OH	Cl
acyl	Н	SH	OH	Br
acyl	Н	SH	ОН	I
acyl	acyl	SH	OH	Н
acyl	acyl	SH	OH	NH ₂
acyl	acyl	SH	ОН	NH-cyclopropyl
acyl	acyl	SH	ОН	NH-methyl
acyl	acyl	SH	ОН	NH-ethyl
acyl	acyl	SH	OH	NH-acetyl
acyl	acyl	SH	OH	ОН
acyl	acyl	SH	OH	OMe
acyl	acyl	SH	ОН	OEt
acyl	acyl	SH	OH	O-cyclopropyl
acyl	acyl	SH	OH	O-acetyl
acyl	acyl	SH	ОН	SH
acyl	acyl	SH	OH	SMe
acyl	acyl	SH	OH	SEt
acyl	acyl	SH	OH	S-cyclopropyl
acyl	acyl	SH	OH	F
acyl	acyl	SH	ОН	Cl
acyl	acyl	SH	OH	Br
acyl	acyl	SH	ОН	I
acyl	amino acid	SH	OH	Н
acyl	amino acid	SH	OH	NH ₂
acyl	amino acid	SH	OH	NH-cyclopropyl
acyl	amino acid	SH	OH	NH-methyl
acyl	amino acid	SH	OH	NH-ethyl
acyl	amino acid	SH	OH	NH-acetyl
acyl	amino acid	SH	OH	OH
acyl	amino acid	SH	OH	OMe
acyl	amino acid	SH	OH	OEt
acyl	amino acid	SH	ОН	O-cyclopropyl
acyl	amino acid	SH	OH	O-acetyl
acyl	amino acid	SH	OH	SH
acyl	amino acid	SH	OH	SMe
acyl	amino acid	SH	OH	SEt
acyl	amino acid	SH	OH	S-cyclopropyl
acyl	amino acid	SH	OH	F
acyl	amino acid	SH	OH	Cl

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
acyl	amino acid	SH	OH	Br
acyl	amino acid	SH	OH	I
Н	acyl	SH	OH	Н
H	acyl	SH	OH	NH ₂
H	acyl	SH	OH	NH-cyclopropyl
H	acyl	SH	OH	NH-methyl
H	acyl	SH	OH	NH-ethyl
H	acyl	SH	OH	NH-acetyl
H	acyl	SH	OH	ОН
Н	acyl	SH	OH	OMe
H	acyl	SH	OH	OEt
H	acyl	SH	OH	O-cyclopropyl
H	acyl	SH	OH	O-acetyl
H	acyl	SH	ОН	SH
H	acyl	SH	OH	SMe
H	acyl .	SH	OH	SEt
Н	acyl	SH	OH	S-cyclopropyl
H	acyl	SH	OH	F
H	acyl	SH	OH	Cl
H	acyl	SH	OH	Br
H	acyl	SH	OH	I
H	amino acid	SH	ОН	H
H	amino acid	SH	OH	NH ₂
Н	amino acid	SH	OH	NH-cyclopropyl
H	amino acid	SH	OH	NH-methyl
H	amino acid	SH	OH	NH-ethyl
H	amino acid	SH	OH	NH-acetyl
H	amino acid	SH	ОН	OH
H	amino acid	SH	ОН	OMe
H	amino acid	SH	ОН	OEt
H	amino acid	SH	ОН	O-cyclopropyl
H	amino acid	SH	ОН	O-acetyl
H	amino acid	SH	OH	SH
H	amino acid	SH	OH	SMe
H	amino acid	SH	OH	SEt
H	amino acid	SH	OH	S-cyclopropyl
H	amino acid	SH	OH	F
H	amino acid	SH	OH	CI
H	amino acid	SH	OH	Br
H	amino acid	SH	OH	I
amino acid	amino acid	SH	OH	H
amino acid	amino acid	SH	OH	NH ₂
amino acid	amino acid	SH	OH	NH-cyclopropyl
amino acid	amino acid	SH	OH	NH-methyl
amino acid	amino acid	SH	OH	NH-ethyl
amino acid	amino acid	SH	OH	NH-acetyl
amino acid	amino acid	SH	OH	ОН

amino acid amino acid SH OH SH amino acid amino acid amino acid SH OH SH amino acid amino acid SH OH SEt amino acid amino acid SH OH SEt amino acid amino acid SH OH S-cycle amino acid amino acid SH OH F amino acid amino acid SH OH Cl amino acid amino acid SH OH Br amino acid amino acid SH OH I amino acid Amino acid SH OH I amino acid Amino acid SH OH I amino acid H SH OH NH-2 amino acid H SH OH NH-4 amino acid H SH OH OH NH-4 amino acid H SH OH OH OH OH Amino acid H SH OH	clopropyl
amino acid amino acid SH OH O-cy amino acid amino acid SH OH O-ac amino acid amino acid SH OH SH amino acid amino acid SH OH SMe amino acid amino acid SH OH SEt amino acid amino acid SH OH S-cy amino acid amino acid SH OH F amino acid amino acid SH OH F amino acid amino acid SH OH Cl amino acid amino acid SH OH Br amino acid amino acid SH OH I amino acid Amino acid SH OH I amino acid AM SH OH I amino acid H SH OH NH-amino acid H SH OH OH OH amino acid H SH OH OH OH amino acid H SH OH OH OH amino acid H SH OH OH	cyclopropyl methyl
amino acid amino acid SH OH O-accamino acid amino acid SH OH SH amino acid amino acid SH OH SEt amino acid amino acid SH OH SEt amino acid amino acid SH OH SEt amino acid amino acid SH OH S-cyamino acid amino acid SH OH F amino acid amino acid SH OH Cl amino acid amino acid SH OH Br amino acid amino acid SH OH I amino acid Amino acid SH OH I amino acid Amino acid SH OH I amino acid H SH OH NH2 amino acid H SH OH NH2 amino acid H SH OH NH2 amino acid H SH OH NH3 amino acid H SH OH OH	clopropyl
amino acid amino acid SH OH SH amino acid amino acid amino acid SH OH SH amino acid amino acid SH OH SEt amino acid amino acid SH OH SEt amino acid amino acid SH OH S-cycle amino acid amino acid SH OH F amino acid amino acid SH OH Cl amino acid amino acid SH OH Br amino acid amino acid SH OH I amino acid AM SH OH I amino acid AM SH OH I amino acid H SH OH NH-amino acid H SH OH OH NH-amino acid H SH OH OH NH-amino acid H SH OH OH OH amino acid H SH OH OH OH OH Amino acid H SH OH	clopropyl
amino acid amino acid SH OH SH amino acid amino acid SH OH SMe amino acid amino acid SH OH SEt amino acid amino acid SH OH S-cycle amino acid amino acid SH OH F amino acid amino acid SH OH Cl amino acid amino acid SH OH Br amino acid amino acid SH OH I amino acid AM SH OH I amino acid AM SH OH I amino acid H SH OH NH-2 amino acid H SH OH NH-4 amino acid H SH OH OH NH-4 amino acid H SH OH OH OH amino acid H SH OH OH OF Cycles Amino acid H SH OH	clopropyl cyclopropyl methyl
amino acid amino acid SH OH SMe amino acid amino acid SH OH SEt amino acid amino acid SH OH S-cyc amino acid amino acid SH OH F amino acid amino acid SH OH Cl amino acid amino acid SH OH Br amino acid amino acid SH OH I amino acid AM SH OH I amino acid H SH OH NH2 amino acid H SH OH NH2 amino acid H SH OH NH-amino acid H SH OH OH NH-amino acid H SH OH OH OH amino acid H SH OH OH OH OH Amino acid H SH OH	clopropyl cyclopropyl methyl
amino acid amino acid SH OH SEt amino acid amino acid SH OH S-cy amino acid amino acid SH OH F amino acid amino acid SH OH CI amino acid amino acid SH OH Br amino acid amino acid SH OH I amino acid AM SH OH I amino acid H SH OH H amino acid H SH OH NH-2 amino acid H SH OH NH-3 amino acid H SH OH OH	clopropyl cyclopropyl methyl
amino acid amino acid SH OH S-cyc amino acid amino acid SH OH F amino acid amino acid SH OH Cl amino acid amino acid SH OH Br amino acid amino acid SH OH I amino acid AM OH I amino acid H SH OH H amino acid H SH OH NH-c amino acid H SH OH OH	cyclopropyl methyl ethyl
amino acid amino acid SH OH F amino acid amino acid SH OH Cl amino acid amino acid SH OH Br amino acid amino acid SH OH I amino acid Amino acid SH OH I amino acid H SH OH H amino acid H SH OH NH- amino acid H SH OH OH	cyclopropyl methyl ethyl
amino acid amino acid SH OH Cl amino acid amino acid SH OH Br amino acid amino acid SH OH I amino acid AH SH OH H amino acid H SH OH NH2 amino acid H SH OH NH- amino acid H SH OH OH	methyl ethyl
amino acid amino acid SH OH Br amino acid amino acid SH OH I amino acid H SH OH H amino acid H SH OH NH2 amino acid H SH OH NH4 amino acid H SH OH OH	methyl ethyl
amino acid amino acid SH OH I amino acid H SH OH H amino acid H SH OH NH2 amino acid H SH OH NH-0 amino acid H SH OH OH amino acid H SH OH OEt amino acid H SH OH O-cy	methyl ethyl
amino acid H SH OH H amino acid H SH OH NH2 amino acid H SH OH NH- amino acid H SH OH OH amino acid H SH OH OEt amino acid H SH OH O-cy	methyl ethyl
amino acid H SH OH NH2 amino acid H SH OH NH- amino acid H SH OH OH amino acid H SH OH OEt amino acid H SH OH O-cy	methyl ethyl
amino acid H SH OH NH-camino acid H SH OH OH OH amino acid H SH OH OH OMeamino acid H SH OH OEt amino acid H SH OH OEt amino acid H SH OH O-cy	methyl ethyl
amino acid H SH OH NH- amino acid H SH OH NH- amino acid H SH OH NH- amino acid H SH OH OH amino acid H SH OH OH amino acid H SH OH OH amino acid H SH OH OEt amino acid H SH OH O-cy	methyl ethyl
amino acidHSHOHNH-0amino acidHSHOHNH-0amino acidHSHOHOHamino acidHSHOHOHamino acidHSHOHOEtamino acidHSHOHO-cy	ethyl
amino acidHSHOHNH-amino acidHSHOHOHamino acidHSHOHOMeamino acidHSHOHOEtamino acidHSHOHO-cy	
amino acidHSHOHOHamino acidHSHOHOMeamino acidHSHOHOEtamino acidHSHOHO-cy	<u></u>
amino acidHSHOHOMeamino acidHSHOHOEtamino acidHSHOHO-cy	1
amino acidHSHOHOEtamino acidHSHOHO-cy	
amino acid H SH OH O-cy	
	clopropyl
amino acid H SH OH O-ac	
amino acid H SH OH SH	
amino acid H SH OH SMe	
amino acid H SH OH SEt	
amino acid H SH OH S-cy	clopropyl
amino acid H SH OH F	* · · · · · · · · · · · · · · · · · · ·
amino acid H SH OH Cl	
amino acid H SH OH Br	
amino acid H SH OH I	
amino acid acyl SH OH H	
amino acid acyl SH OH NH ₂	
amino acid acyl SH OH NH-	cyclopropyl
amino acid acyl SH OH NH-	methyl
amino acid acyl SH OH NH-	ethyl
amino acid acyl SH OH NH-	acetyl
amino acid acyl SH OH OH	-
amino acid acyl SH OH OMe	;
amino acid acyl SH OH OEt	
amino acid acyl SH OH O-cy	clopropyl
amino acid acyl SH OH O-ac	
amino acid acyl SH OH SH	··
amino acid acyl SH OH SMe	
amino acid acyl SH OH SEt	
	clopropyl
amino acid acyl SH OH F	

acyl	SH	X ²	Y
	1 011	OH	Cl
acyl	SH	OH	Br
acyl	SH	OH	I
H	OH	OH	H
			NH ₂
			NH-cyclopropyl
			NH-methyl
			NH-ethyl
			NH-acetyl
			OH
			OMe
			OEt
			O-cyclopropyl
			O-acetyl
			SH
			SMe
			SEt
			S-cyclopropyl
			F
			Cl
			Br
			I
			H
			NH ₂
			NH-cyclopropyl
~ — — — — — — — — — — — — — — — — — — —			NH-methyl
			NH-ethyl
			NH-acetyl
			OH
	OH	ОН	OMe
acyl	OH	OH	OEt
acyl	OH	OH	O-cyclopropyl
acyl	OH	OH	O-acetyl
acyl	OH	OH	SH
acyl	OH	OH	SMe
acyl	OH	OH	SEt
acyl	OH	OH	S-cyclopropyl
acyl	OH	OH	F
acyl	OH	OH	Cl
acyl	OH	OH	Br
acyl	ОН	OH	I
amino acid			Н
amino acid			NH ₂
			NH-cyclopropyl
			NH-methyl
			NH-ethyl
			NH-acetyl
	H H H H H H H H H H H H H H H H H H H	H H OH H	H OH OH OH OH H OH OH OH OH OH OH OH OH

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	amino acid	OH	OH	ОН
acyl	amino acid	OH	ОН	OMe
acyl	amino acid	OH	OH	OEt
acyl	amino acid	OH	OH	O-cyclopropyl
acyl	amino acid	OH	ОН	O-acetyl
acyl	amino acid	OH	ОН	SH
acyl	amino acid	ОН	OH	SMe
acyl	amino acid	ОН	ОН	SEt
acyl	amino acid	OH	ОН	S-cyclopropyl
acyl	amino acid	ОН	ОН	F
acyl	amino acid	ОН	OH	Cl
acyl	amino acid	OH	ОН	Br
acyl	amino acid	ОН	OH	Ī
H	acyl	OH	OH	Н
Н	acyl	OH	ОН	NH ₂
H	acyl	OH	OH	NH-cyclopropyl
H	acyl	OH	OH	NH-methyl
Н	acyl	OH	OH	NH-ethyl
H	acyl	ОН	OH	NH-acetyl
Н	acyl	OH	OH	ОН
Н	acyl	ОН	OH	OMe
Н	acyl	OH	OH	OEt
H	acyl	OH	OH	O-cyclopropyl
H	acyl	OH	ОН	O-acetyl
Н	acyl	OH	OH	SH
H	acyl	OH	OH	SMe
Н	acyl	OH	OH	SEt
Н	acyl	OH	OH	S-cyclopropyl
Н	acyl	OH	OH	F
Н	acyl	OH	ОН	Cl
Н	acyl	OH	OH	Br
H	acyl	OH	OH	I
Н	amino acid	ОН	OH	H
H	amino acid	OH	OH	NH ₂
H	amino acid	OH	OH	NH-cyclopropyl
H	amino acid	OH	OH	NH-methyl
H	amino acid	OH	ОН	NH-ethyl
H	amino acid	OH	ОН	NH-acetyl
H	amino acid	OH	OH	OH
H	amino acid	ОН	OH	OMe
H	amino acid	ОН	ОН	OEt
H	amino acid	ОН	OH	O-cyclopropyl
H	amino acid	OH	OH	O-acetyl
H	amino acid	ОН	OH	SH
H	amino acid	ОН	OН	SMe
Н	amino acid	ОН	OH	SEt
H	amino acid	ОН	OH	S-cyclopropyl

R ²	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
H	amino acid	ОН	OH	F
Н	amino acid	ОН	OH	Cl
Н	amino acid	OH	OH	Br
Н	amino acid	OH	OH	I
amino acid	amino acid	ОН	ОН	H
amino acid	amino acid	ОН	OH	NH ₂
amino acid	amino acid	ОН	ОН	NH-cyclopropyl
amino acid	amino acid	ОН	ОН	NH-methyl
amino acid	amino acid	ОН	OH	NH-ethyl
amino acid	amino acid	OH	OH	NH-acetyl
amino acid	amino acid	ОН	OH	OH
amino acid	amino acid	OH	OH	OMe
amino acid	amino acid	ОН	OH	OEt
amino acid	amino acid	ОН	OH	O-cyclopropyl
amino acid	amino acid	ОН	OH	O-acetyl
amino acid	amino acid	OH	OH	SH
amino acid	amino acid	OH	OH	SMe
amino acid	amino acid	ОН	OH	SEt
amino acid	amino acid	OH	OH	S-cyclopropyl
amino acid	amino acid	ОН	ОН	F
amino acid	amino acid	OH	OH	Cl
amino acid	amino acid	OH	OH	Br
amino acid	amino acid	OH	ОН	I
amino acid	H	OH	OH	Н
amino acid	Н	OH	OH	NH ₂
amino acid	H	OH	OH	NH-cyclopropyl
amino acid	Н	OH	OH	NH-methyl
amino acid	H	OH	OH	NH-ethyl
amino acid	Н	OH	OH	NH-acetyl
amino acid	Н	OH	OH	ОН
amino acid	Н	OH	OH	OMe
amino acid	Н	OH	ОН	OEt
amino acid	Н	OH	OH	O-cyclopropyl
amino acid	Н	OH	OH	O-acetyl
amino acid	Н	OH	ОН	SH
amino acid	H	ОН	OH	SMe
amino acid	H	ОН	ОН	SEt
amino acid	Н	ОН	OH	S-cyclopropyl
amino acid	Н	OH	OH	F
amino acid	Н	OH	OH	Cl
amino acid	Н	ОН	OH	Br
amino acid	Н	ОН	ОН	I
amino acid	acyl	OH	OH	Н
amino acid	acyl	OH	OH	NH ₂
amino acid	acyl	OH	ОН	NH-cyclopropyl
amino acid	acyl	OH	OH	NH-methyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	acyl	ОН	ОН	NH-acetyl
amino acid	acyl	OH	OH	ОН
amino acid	acyl	OH	OH	OMe
amino acid	acyl	OH	OH	OEt
amino acid	acyl	OH	OH	O-cyclopropyl
amino acid	acyl	OH	OH	O-acetyl
amino acid	acyl	OH	OH	SH
amino acid	acyl	OH	OH	SMe
amino acid	acyl	OH	OH	SEt
amino acid	acyl	OH	OH	S-cyclopropyl
amino acid	acyl	OH	OH	F
amino acid	acyl	OH	OH	Cl
amino acid	acyl	OH	OH	Br
amino acid	acyl	OH	OH	I
acyl	Н	CH ₃	H	Н
acyl	Н	CH ₃	Н	NH ₂
acyl	Н	CH ₃	Н	NH-cyclopropyl
acyl	Н	CH ₃	Н	NH-methyl
acyl	Н	CH ₃	Н	NH-ethyl
acyl	Н	CH ₃	Н	NH-acetyl
acyl	H	CH ₃	Н	OH
acyl	Н	CH ₃	Н	OMe
acyl	Н	CH ₃	H	OEt
acyl	H	CH ₃	H	O-cyclopropyl
acyl	Н	CH ₃	H ·	O-acetyl
acyl	H	CH ₃	H	SH
acyl	H	CH ₃	H	SMe
acyl	H	CH ₃	H	SEt
acyl	H	CH ₃	H	S-cyclopropyl
acyl	Н	CH ₃	Н	F
acyl	H	CH ₃	H	Cl
acyl	H	CH ₃	H	Br
acyl	H	CH ₃	H	I
acyl	acyl	CH ₃	H	H
acyl	acyl	CH ₃	H	NH ₂
acyl	acyl	CH ₃	H	NH-cyclopropyl
acyl	acyl	CH ₃	H	NH-methyl
acyl	acyl	CH ₃	H	NH-ethyl
acyl	acyl	CH ₃	H	NH-acetyl
acyl	acyl	CH ₃	H	OH
acyl	acyl	CH ₃	H	OMe
acyl	acyl	CH ₃	H	OEt
acyl	acyl	CH ₃	H	O-cyclopropyl
acyl	acyl	CH ₃	Н	O-acetyl
acyl	acyl	CH ₃	H	SH
acyl	acyl	CH ₃	Н	SMe
acyl	acyl	CH ₃	H	SEt

\mathbb{R}^2	R ³	X ¹	X^2	Y
acyl	acyl	CH ₃	H	S-cyclopropyl
acyl	acyl	CH ₃	H	F
acyl	acyl	CH ₃	H	Cl
acyl	acyl	CH ₃	H	Br
acyl	acyl	CH ₃	H	I
acyl	amino acid	CH ₃	H	H
acyl	amino acid	CH ₃	H	NH ₂
acyl	amino acid	CH ₃	Н	NH-cyclopropyl
acyl	amino acid	CH ₃	H	NH-methyl
acyl	amino acid	CH ₃	Н	NH-ethyl
acyl	amino acid	CH ₃	H	NH-acetyl
acyl	amino acid	CH ₃	H	OH
acyl	amino acid	CH ₃	Н	OMe
acyl	amino acid	CH ₃	Н	OEt
acyl	amino acid	CH ₃	H	O-cyclopropyl
acyl	amino acid	CH ₃	H	O-acetyl
acyl	amino acid	CH ₃	H	SH
acyl	amino acid	CH ₃	H	SMe
acyl	amino acid	CH ₃	H	SEt
acyl	amino acid	CH ₃	H	S-cyclopropyl
acyl	amino acid	CH ₃	H	F
acyl	amino acid	CH ₃	H	Cl
acyl	amino acid	CH ₃	Н	Br
acyl	amino acid	CH ₃	H	I
Н	acyl	CH ₃	Н	Н
H	acyl	CH ₃	H	NH ₂
Н	acyl	CH ₃	H	NH-cyclopropyl
H	acyl	CH ₃	H	NH-methyl
H	acyl	CH ₃	H	NH-ethyl
Н	acyl	CH ₃	H	NH-acetyl
H	acyl	CH ₃	H	OH
H	acyl	CH ₃	H	OMe
H	acyl	CH ₃	H	OEt
H	acyl	CH ₃	H	O-cyclopropyl
H	acyl	CH ₃	H	O-acetyl
H	acyl	CH ₃	H_	SH
H	acyl	CH ₃	H	SMe
H	acyl	CH ₃	H	SEt
H	acyl	CH ₃	H	S-cyclopropyl
Н	acyl	CH₃	H	F
H	acyl	CH ₃	H	Cl
Н	acyl	CH ₃	Н	Br
Н	acyl	CH ₃	Н	I
H	amino acid	CH ₃	H	Н
Η	amino acid	CH ₃	Н	NH ₂
H	amino acid	CH ₃	Н	NH-cyclopropyl
Н	amino acid	CH ₃	H	NH-methyl

R ²	R ³	\mathbf{X}^{1}	X ²	Y
H	amino acid	CH ₃	Н	NH-ethyl
H	amino acid	CH ₃	H	NH-acetyl
H	amino acid	CH ₃	H	OH
H	amino acid	CH ₃	H	OMe
H	amino acid	CH ₃	H	OEt
H	amino acid	CH ₃	H	O-cyclopropyl
H	amino acid	CH ₃	H	O-acetyl
H	amino acid	CH ₃	H	SH
H	amino acid	CH ₃	H	SMe
H	amino acid	CH ₃	H	SEt
H	amino acid	CH ₃	H	S-cyclopropyl
H	amino acid	CH ₃	H	F
Н	amino acid	CH ₃	H	Cl
H	amino acid	CH ₃	H	Br
H	amino acid	CH ₃	H	I
amino acid	amino acid	CH ₃	H	H
amino acid	amino acid	CH ₃	H	NH ₂
amino acid	amino acid	CH ₃	H	NH-cyclopropyl
amino acid	amino acid	CH ₃	H	NH-methyl
amino acid	amino acid	CH ₃	H	NH-ethyl
amino acid	amino acid	CH ₃	H	NH-acetyl
amino acid	amino acid	CH ₃	H	OH
amino acid	amino acid	CH ₃	H	OMe
amino acid	amino acid	CH ₃	H	OEt
amino acid	amino acid	CH ₃	H	O-cyclopropyl
amino acid	amino acid	CH ₃	H	O-acetyl
amino acid	amino acid	CH ₃	H	SH
amino acid	amino acid	CH ₃	H	SMe
amino acid	amino acid	CH ₃	H	SEt
amino acid	amino acid	CH ₃	H	S-cyclopropyl
amino acid	amino acid	CH ₃	H	F
amino acid	amino acid	CH ₃	H	CI
amino acid	amino acid	CH ₃	H	Br
amino acid	amino acid	CH ₃	H	Ī
amino acid	H	CH ₃	H	H
amino acid	H	CH ₃	H	NH ₂
amino acid	Н	CH ₃	H	NH-cyclopropyl
amino acid	Н	CH ₃	H	NH-methyl
amino acid	H	CH ₃	H	NH-ethyl
amino acid	H	CH ₃	H	NH-acetyl
amino acid	H	CH ₃	H	OH OH
amino acid	H	CH ₃	H	OMe
amino acid	H	CH ₃	H	OEt
amino acid	H	CH ₃	H	O-cyclopropyl
amino acid	$\frac{\Pi}{H}$	CH ₃	H	O-acetyl
amino acid	H	CH ₃	H	SH
amino acid	$\frac{\Pi}{H}$	CH ₃	H	SMe
willing acid	11	C113	111	DIAIC

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	Н	CH ₃	H	SEt
amino acid	Н	CH ₃	Н	S-cyclopropyl
amino acid	Н	CH ₃	H	F
amino acid	Н	CH ₃	H	Cl
amino acid	H	CH ₃	H	Br
amino acid	H	CH ₃	H	I
amino acid	acyl	CH ₃	H	H
amino acid	acyl	CH ₃	H	NH ₂
amino acid	acyl	CH ₃	H	
amino acid	acyl	CH ₃	H	NH-cyclopropyl NH-methyl
amino acid		CH ₃	H	
amino acid	acyl	CH ₃	H	NH-ethyl
amino acid	acyl			NH-acetyl
amino acid	acyl	CH ₃	H	OH
	acyl	CH ₃	H	OMe
amino acid	acyl	CH ₃	H	OEt
amino acid	acyl	CH ₃	H	O-cyclopropyl
amino acid	acyl	CH ₃	H	O-acetyl
amino acid	acyl	CH ₃	H	SH
amino acid	acyl	CH ₃	H	SMe
amino acid	acyl	CH ₃	H	SEt
amino acid	acyl	CH ₃	H	S-cyclopropyl
amino acid	acyl	CH ₃	H	F
amino acid	acyl	CH ₃	H	Cl
amino acid	acyl	CH ₃	H	Br
amino acid	acyl	CH ₃	H	I
acyl	H	CF ₃	H	H
acyl	H	CF ₃	H	NH ₂
acyl	H	CF ₃	H	NH-cyclopropyl
acyl	H	CF ₃	H	NH-methyl
acyl	Н	CF ₃	Н	NH-ethyl
acyl	Н	CF ₃	H	NH-acetyl
acyl	Н	CF ₃	Н	OH
acyl	Н	CF ₃	Н	OMe
acyl	H	CF ₃	Н	OEt
acyl	Н	CF ₃	Н	O-cyclopropyl
acyl	H	CF ₃	Н	O-acetyl
acyl	H	CF ₃	Н	SH
acyl	H	CF ₃	H	SMe
acyl	H	CF ₃	H	SEt
acyl	H	CF ₃	† H	S-cyclopropyl
acyl	H	CF ₃	H	F
acyl	H	CF ₃	H	Cl
acyl	H	CF ₃	H	Br
acyl	H	CF ₃	Н	I
				
acyl	acyl	CF ₃	H	H
acyl	acyl	CF ₃	H	NH ₂
acyl	acyl	CF ₃	H	NH-cyclopropyl

R ²	R ³	X ¹	X ²	Y
acyl	acyl	CF ₃	Н	NH-methyl
acyl	acyl	CF ₃	H	NH-ethyl
acyl	acyl	CF ₃	Н	NH-acetyl
acyl	acyl	CF ₃	H	OH
acyl	acyl	CF ₃	H	OMe
acyl	acyl	CF ₃	Н	OEt
acyl	acyl	CF ₃	Н	O-cyclopropyl
acyl	acyl	CF ₃	H	O-acetyl
acyl	acyl	CF ₃	Н	SH
acyl	acyl	CF ₃	Н	SMe
acyl	acyl	CF ₃	H	SEt
acyl	acyl	CF ₃	Н	S-cyclopropyl
acyl	acyl	CF ₃	Н	F
acyl	acyl	CF ₃	Н	Cl
acyl	acyl	CF ₃	Н	Br
acyl	acyl	CF ₃	Н	I
acyl	amino acid	CF ₃	H	H
acyl	amino acid	CF ₃	Н	NH ₂
acyl	amino acid	CF ₃	Н	NH-cyclopropyl
acyl	amino acid	CF ₃	Н	NH-methyl
acyl	amino acid	CF ₃	Н	NH-ethyl
acyl	amino acid	CF ₃	Н	NH-acetyl
acyl	amino acid	CF ₃	H	OH
acyl	amino acid	CF ₃	Н	OMe
acyl	amino acid	CF ₃	Н	OEt
acyl	amino acid	CF ₃	Н	O-cyclopropyl
acyl	amino acid	CF ₃	H	O-acetyl
acyl	amino acid	CF ₃	H	SH
acyl	amino acid	CF ₃	H	SMe
acyl	amino acid	CF ₃	H	SEt
acyl	amino acid	CF ₃	H	S-cyclopropyl
acyl	amino acid	CF ₃	H	F
acyl	amino acid	CF ₃	H	Cl
acyl	amino acid	CF ₃	H	Br
acyl	amino acid	CF ₃	H	I
H	acyl	CF ₃	<u>H</u>	H
H	acyl	CF ₃	Н	NH ₂
H	acyl	CF ₃	Н	NH-cyclopropyl
H	acyl	CF ₃	H	NH-methyl
H	acyl	CF ₃	H	NH-ethyl
H	acyl	CF ₃	H	NH-acetyl
H	acyl	CF ₃	Н	ОН
H	acyl	CF ₃	H	OMe
<u>'H</u>	acyl	CF ₃	Н	OEt
Н	acyl	CF ₃	Н	O-cyclopropyl
H	acyl	CF ₃	Н	O-acetyl
H	acyl	CF ₃	H	SH

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
H	acyl	CF ₃	Н	SMe
H	acyl	CF ₃	Н	SEt
H	acyl	CF ₃	Н	S-cyclopropyl
H	acyl	CF ₃	H	F
H	acyl	CF ₃	H	Cl
H	acyl	CF ₃	H	Br
H	acyl	CF ₃	H	I
H	amino acid	CF ₃	H	Н
H	amino acid	CF ₃	H	NH ₂
H	amino acid	CF ₃	H	NH-cyclopropyl
H	amino acid	CF ₃	H	NH-methyl
H	amino acid	CF ₃	H	NH-ethyl
Н	amino acid	CF ₃	H	NH-acetyl
H	amino acid	CF ₃	H	OH
Н	amino acid	CF ₃	H	OMe
H	amino acid	CF ₃	Н	OEt
H	amino acid	CF ₃	H	O-cyclopropyl
Н	amino acid	CF ₃	Н	O-acetyl
Н	amino acid	CF ₃	Н	SH
H	amino acid	CF ₃	H	SMe
Н	amino acid	CF ₃	Н	SEt
H	amino acid	CF ₃	Н	S-cyclopropyl
H	amino acid	CF ₃	H	F
Н	amino acid	CF ₃	H	Cl
Н	amino acid	CF ₃	H	Br
H	amino acid	CF ₃	H	I
amino acid	amino acid	CF ₃	H	Н
amino acid	amino acid	CF ₃	H	NH ₂
amino acid	amino acid	CF ₃	H	NH-cyclopropyl
amino acid	amino acid	CF ₃	H	NH-methyl
amino acid	amino acid	CF ₃	H	NH-ethyl
amino acid	amino acid	CF ₃	H	NH-acetyl
amino acid	amino acid	CF ₃	H	ОН
amino acid	amino acid	CF ₃	H	OMe
amino acid	amino acid	CF ₃	H	OEt
amino acid	amino acid	CF ₃	H	O-cyclopropyl
amino acid	amino acid	CF ₃	H	O-acetyl
amino acid	amino acid	CF ₃	H	SH
amino acid	amino acid	CF ₃	H	SMe
amino acid	amino acid	CF ₃	H	SEt
amino acid	amino acid	CF ₃	H	S-cyclopropyl
amino acid	amino acid	CF ₃	H	F
amino acid	amino acid	CF ₃	H	Cl
amino acid	amino acid	CF ₃	H	Br
amino acid	amino acid	CF ₃	H	I
amino acid	H	CF ₃	H	H
amino acid	Н	CF ₃	H	NH ₂

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	H	CF ₃	H	NH-cyclopropyl
amino acid	H	CF ₃	H	NH-methyl
amino acid	H	CF ₃	H	NH-ethyl
amino acid	H	CF ₃	Н	NH-acetyl
amino acid	H	CF ₃	H	OH
amino acid	H	CF ₃	H	OMe
amino acid	H	CF ₃	H	OEt
amino acid	Н	CF ₃	Н	O-cyclopropyl
amino acid	H	CF ₃	H	O-acetyl
amino acid	H	CF ₃	H	SH
amino acid	Н	CF ₃	H	SMe
amino acid	Н	CF ₃	H	SEt
amino acid	Н	CF ₃	H	S-cyclopropyl
amino acid	Н	CF ₃	H	F
amino acid	Н	CF ₃	H	Cl
amino acid	H	CF ₃	H	Br
amino acid	Н	CF ₃	H	I
amino acid	acyl	CF ₃	H	H
amino acid	acyl	CF ₃	H	NH ₂
amino acid	acyl	CF ₃	H	NH-cyclopropyl
amino acid	acyl	CF ₃	H	NH-methyl
amino acid	acyl	CF ₃	H	NH-ethyl
amino acid	acyl	CF ₃	H	NH-acetyl
amino acid	acyl	CF ₃	H	OH
amino acid	acyl	CF ₃	H	OMe
amino acid	acyl	CF ₃	H	OEt
amino acid	acyl	CF ₃	H	O-cyclopropyl
amino acid	acyl	CF ₃	H	O-acetyl
amino acid	acyl	CF ₃	Н	SH
amino acid	acyl	CF ₃	H	SMe
amino acid	acyl	CF ₃	Н	SEt
amino acid	acyl	CF ₃	H	S-cyclopropyl
amino acid	acyl	CF ₃	H	F
amino acid	acyl	CF ₃	Н	Cl
amino acid	acyl	CF ₃	H	Br
amino acid	acyl	CF ₃	H	I
acyl	H	Br	Н	Н
acyl	H	Br	H	NH ₂
acyl	Н	Br	Н	NH-cyclopropyl
acyl	H	Br	H	NH-methyl
acyl	Н	Br	H	NH-ethyl
acyl	H	Br	H	NH-acetyl
acyl	H	Br	H	OH
acyl	H	Br	H	OMe
acyl	H	Br	H	OEt
acyl	$-\frac{1}{H}$	Br	H	O-cyclopropyl
acyl	H	Br	$\frac{\Pi}{H}$	O-acetyl
acyı		I	_п	O-acetyl

R ²	\mathbb{R}^3	X¹	X ²	Y
acyl	Н	Br	H	SH
acyl	H	Br	H	SMe
acyl	H	Br	H	SEt
acyl	H	Br	H	S-cyclopropyl
acyl	H	Br	H	F
acyl	H	Br	H	Cl
acyl	H	Br	H	Br
acyl	H	Br	H -	I
acyl	acyl	Br	H	H
acyl	acyl	Br	H	NH ₂
acyl	acyl	Br	H	NH-cyclopropyl
acyl	acyl	Br	H	NH-methyl
acyl	acyl	Br	H	NH-ethyl
acyl	acyl	Br	H	NH-acetyl
acyl	acyl	Br	H H	OH
acyl	acyl	Br	H	OMe
acyl	acyl	Br	H	OEt
acyl	acyl	Br	H	O-cyclopropyl
acyl	acyl	Br	H	O-acetyl
acyl	acyl	Br	H	SH
acyl	acyl	Br	H	SMe
acyl	acyl	Br	H	SEt
acyl	acyl	Br	H	S-cyclopropyl
acyl	acyl	Br	Н	F
acyl	acyl	Br	H	Cl
acyl	acyl	Br	H	Br
acyl	acyl	Br	H	I
acyl	amino acid	Br	H	Н
acyl	amino acid	Br	Н	NH ₂
acyl	amino acid	Br	Н	NH-cyclopropyl
acyl	amino acid	Br	Н	NH-methyl
acyl	amino acid	Br	Н	NH-ethyl
acyl	amino acid	Br	H	NH-acetyl
acyl	amino acid	Br	Н	OH
acyl	amino acid	Br	Н	OMe
acyl	amino acid	Br	Н	OEt
acyl	amino acid	Br	H	O-cyclopropyl
acyl	amino acid	Br	H	O-acetyl
acyl	amino acid	Br	H	SH
acyl	amino acid	Br	Н	SMe
acyl	amino acid	Br	Н	SEt
acyl	amino acid	Br	Н	S-cyclopropyl
acyl	amino acid	Br	H	F
acyl	amino acid	Br	Н	Cl
acyl	amino acid	Br	H	Br
acyl	amino acid	Br	H	Ī
H	acyl	Br	Н	Н

R ²	\mathbb{R}^3	X¹	X ²	Y
H	acyl	Br	H	NH ₂
H	acyl	Br	Н	NH-cyclopropyl
Н	acyl	Br	Н	NH-methyl
H	acyl	Br	H	NH-ethyl
H	acyl	Br	Н	NH-acetyl
H	acyl	Br	H	OH
H	acyl	Br	Н	OMe
H	acyl	Br	H	OEt
H	acyl	Br	Н	O-cyclopropyl
H	acyl	Br	H	O-acetyl
H	acyl	Br	H	SH
H	acyl	Br	Н	SMe
H	acyl	Br	Н	SEt
H	acyl	Br	Н	S-cyclopropyl
H	acyl	Br	Н	F
Н	acyl	Br	H	Cl
H	acyl	Br	Н	Br
H	acyl	Br	Н	I
H	amino acid	Br	Н	Н
H	amino acid	Br	Н	NH ₂
H	amino acid	Br	Н	NH-cyclopropyl
H	amino acid	Br	Н	NH-methyl
Н	amino acid	Br	H	NH-ethyl
H	amino acid	Br	Н	NH-acetyl
Н	amino acid	Br	Н	OH
H	amino acid	Br	H	OMe
H	amino acid	Br	H	OEt
Н	amino acid	Br	H	O-cyclopropyl
Н	amino acid	Br	H	O-acetyl
Н	amino acid	Br	H	SH
Н	amino acid	Br	H	SMe
H	amino acid	Br	H	SEt
Н	amino acid	Br	H	S-cyclopropyl
Н	amino acid	Br	H	F
H	amino acid	Br	H	Cl
H	amino acid	Br	H	Br
H	amino acid	Br	H	I
amino acid	amino acid	Br	H	<u>H</u>
amino acid	amino acid	Br	H	NH ₂
amino acid	amino acid	Br	H	NH-cyclopropyl
amino acid	amino acid	Br	H	NH-methyl
amino acid	amino acid	Br	H	NH-ethyl
amino acid	amino acid	Br	H	NH-acetyl
amino acid	amino acid	Br	Н	ОН
amino acid	amino acid	Br	Н	OMe
amino acid	amino acid	Br	Н	OEt
amino acid	amino acid	Br	H	O-cyclopropyl

amino acid	Br	X ²	0
amino acid		1.1	O-acetyl
	Br	H	SH
amino acid	Br	H	SMe
amino acid	Br	H	SEt
amino acid	Br	H	S-cyclopropyl
			F
			Cl
			Br
			I
			H
			NH ₂
Н			NH-cyclopropyl
H			NH-methyl
Н			NH-ethyl
Н	Br		NH-acetyl
Н	Br		OH
Н			OMe
Н	-		OEt
Н			O-cyclopropyl
Н			O-acetyl
Н	Br		SH
Н	Br		SMe
Н			SEt
H			S-cyclopropyl
H	Br		F
Н	Br	H	Cl
H	Br	Н	Br
H	Br	H	I
acyl	Br	Н	Н
acyl	Br	H	NH ₂
acyl	Br	Н	NH-cyclopropyl
acyl	Br	H	NH-methyl
acyl	Br	Н	NH-ethyl
acyl	Br	H	NH-acetyl
acyl	Br	H	OH
acyl	Br	H	OMe
acyl	Br	Н	OEt
acyl	Br	Н	O-cyclopropyl
	Br	H	O-acetyl
acyl	Br	H	SH
acyl	Br	H	SMe
+ •	Br		SEt
			S-cyclopropyl
			F
			Cl
			Br
			$\frac{ B }{ I }$
	amino acid amino acid amino acid amino acid H H H H H H H H H H H H H H H H H H H	amino acid Br H	amino acid Br H Amino acid Br

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	Н	Cl	H	H
acyl	Н	Cl	H	NH ₂
acyl	Н	Cl	H	NH-cyclopropyl
acyl	Н	Cl	H	NH-methyl
acyl	H	Cl	H	NH-ethyl
acyl	H	Cl	H	NH-acetyl
acyl	H	Cl	H	OH
acyl	Н	CI	H	OMe
acyl	H	Cl	H	OEt
acyl	H	Cl	H	O-cyclopropyl
acyl	H	CI	H	O-acetyl
acyl	H	Cl	H	SH
acyl	H	Cl	H	SMe
acyl	H	Cl	$\frac{H}{H}$	SEt
acyl	H	Cl	H	S-cyclopropyl
acyl	H	Cl	$-\frac{H}{H}$	F
acyl	H	Cl	H	Cl
acyl	$\frac{1}{H}$	Cl	H	Br
acyl	H	CI	H	I
acyl	acyl	CI	$-\frac{H}{H}$	H
acyl	acyl	Cl	H	NH ₂
acyl	acyl	Cl	$\frac{11}{H}$	NH-cyclopropyl
acyl	acyl	Cl	$\frac{H}{H}$	NH-methyl
acyl	acyl	Cl	H	NH-ethyl
acyl	acyl	Cl	H	NH-acetyl
acyl	acyl	Cl	$\frac{1}{H}$	OH
acyl	acyl	Cl	H	OMe
acyl	acyl	Ci	H	OEt
acyl	acyl	Ci	H	O-cyclopropyl
acyl	acyl	Cl	H	O-acetyl
acyl	acyl	Cl	H	SH
acyl	acyl	CI	H	SMe
acyl	acyl	Cl	H	SEt
acyl	acyl	Cl	H	S-cyclopropyl
acyl	acyl	Cl	H	F
acyl	acyl	Cl	H	Cl
acyl	acyl	Cl	H	Br
acyl	acyl	Cl	$\frac{11}{H}$	I
acyl	amino acid	Cl	H	H
acyl	amino acid	Cl	H	NH ₂
acyl	amino acid	Cl	H	NH-cyclopropyl
acyl	amino acid	Cl	H	NH-methyl
acyl	amino acid	Cl	H	NH-ethyl
acyl	amino acid	Cl	$\frac{11}{H}$	NH-acetyl
acyl	amino acid	Cl	H	OH
acyl	amino acid	Cl	$\frac{H}{H}$	OMe
acyl	amino acid	Cl	H	
acyı	ammo acid	<u> </u>	u_	OEt

amino acid acid acid acid acid acid acid acid	X ¹ Cl Cl Cl Cl Cl Cl Cl C	H H H H H H H H H H H H	O-cyclopropyl O-acetyl SH SMe SEt S-cyclopropyl F Cl Br I H NH ₂ NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
amino acid acyl acyl acyl acyl acyl acyl acyl acyl	CI	H H H H H H H H H H	O-acetyl SH SMe SEt S-cyclopropyl F Cl Br I H NH ₂ NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
amino acid acid acyl acyl acyl acyl acyl acyl acyl acyl	CI	H H H H H H H H H H	SH SMe SEt S-cyclopropyl F Cl Br I H NH ₂ NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
amino acid acyl acyl acyl acyl acyl acyl acyl acyl	CI CI CI CI CI CI CI CI CI CI CI	H H H H H H H H H H	SEt S-cyclopropyl F Cl Br I H NH2 NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
amino acid acyl acyl acyl acyl acyl acyl acyl acyl	CI CI CI CI CI CI CI CI CI CI CI	H H H H H H H H H H	SEt S-cyclopropyl F Cl Br I H NH2 NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
amino acid amino acid amino acid amino acid amino acid amino acid acyl acyl acyl acyl acyl acyl acyl acyl	CI CI CI CI CI CI CI CI CI CI	H H H H H H H H H	S-cyclopropyl F Cl Br I H NH2 NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
amino acid amino acid amino acid amino acid amino acid acyl acyl acyl acyl acyl acyl acyl acyl	C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1	H H H H H H H H	F Cl Br I H NH2 NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
amino acid amino acid amino acid acyl acyl acyl acyl acyl acyl acyl acyl	C1 C1 C1 C1 C1 C1 C1 C1 C1 C1	H H H H H H H H	Br I H NH2 NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
amino acid amino acid acyl acyl acyl acyl acyl acyl acyl acyl	C1 C1 C1 C1 C1 C1 C1 C1 C1	H H H H H H H	Br I H NH2 NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
amino acid acyl acyl acyl acyl acyl acyl acyl acyl	CI CI CI CI CI CI CI CI	H H H H H H H	I H NH ₂ NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
acyl acyl acyl acyl acyl acyl acyl acyl	C1 C1 C1 C1 C1 C1 C1 C1	H H H H H H	H NH2 NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
acyl acyl acyl acyl acyl acyl acyl acyl	CI CI CI CI CI CI CI	H H H H H	NH ₂ NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
acyl acyl acyl acyl acyl acyl acyl acyl	CI CI CI CI CI CI	H H H H H	NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe
acyl acyl acyl acyl acyl acyl acyl acyl	C1 C1 C1 C1 C1 C1	H H H H	NH-methyl NH-ethyl NH-acetyl OH OMe
acyl acyl acyl acyl acyl acyl acyl	CI CI CI CI	H H H	NH-ethyl NH-acetyl OH OMe
acyl acyl acyl acyl acyl	Cl Cl Cl	H H H	NH-acetyl OH OMe
acyl acyl acyl acyl	Cl Cl	H H	OH OMe
acyl acyl acyl	Cl Cl	Н	OMe
acyl acyl	Cl		
acyl			OEt
	,	H	O-cyclopropyl
I CLUVI	Cl		O-acetyl
			SH
	!		SMe
			SEt
			S-cyclopropyl
			F
			Cl
			Br
			I
			Н
		H	NH ₂
			NH-cyclopropyl
			NH-methyl
			NH-ethyl
amino acid			NH-acetyl
amino acid			OH
amino acid	Cl		OMe
amino acid			OEt
 		 -	O-cyclopropyl
· · · · · · · · · · · · · · · · · · ·			O-acetyl
			SH
			SMe
 			SEt
			S-cyclopropyl
			F
			Cl
			Br
	amino acid	acyl Cl amino acid Cl	acyl Cl H amino acid Cl H

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
Н	amino acid	Cl	Н	I
amino acid	amino acid	Cl	Н	H
amino acid	amino acid	Cl	H	NH ₂
amino acid	amino acid	Cl	H	NH-cyclopropyl
amino acid	amino acid	Ci	H	NH-methyl
amino acid	amino acid	Ci	H	NH-ethyl
amino acid	amino acid	Cl	H	NH-acetyl
amino acid	amino acid	CI	H	OH
amino acid	amino acid	Cl	H	OMe
amino acid	amino acid	Cl	H	OEt
amino acid	amino acid	Cl	H	O-cyclopropyl
amino acid	amino acid	Cl	H	O-acetyl
amino acid	amino acid	Cl	H	SH
amino acid	amino acid	CI	H	SMe
amino acid	amino acid	Cl	H	SEt
amino acid	amino acid	Cl	H	S-cyclopropyl
amino acid	amino acid	Cl	$\frac{\Pi}{H}$	F S-cycloplopyi
amino acid	amino acid	Cl	H H	Cl
amino acid	amino acid	Cl	H	Br
amino acid	amino acid	CI	H	I
amino acid	H	Ci	H	H
amino acid	H	CI	H	NH ₂
amino acid	H	Cl	H	NH-cyclopropyl
amino acid	H	Cl	H	NH-methyl
amino acid	Н	CI	H	NH-ethyl
amino acid	H	Cl	H	NH-acetyl
amino acid	H	Cl	H	OH
amino acid	H	Cl	H	OMe
amino acid	H	Cl	H	OEt
amino acid	H	Cl	H	O-cyclopropyl
amino acid	H	Cl	H	O-acetyl
amino acid	H	CI	H	SH
amino acid	H	Cl	H	SMe
amino acid	H	Cl	H	SEt
amino acid	H	Cl	H	S-cyclopropyl
amino acid	Н	Cl	H	F
amino acid	H	Cl	H	Cl
amino acid	H	Cl	H	Br
amino acid	H	CI	H	I
amino acid	acyl	Cl	H	H
amino acid	acyl	Cl	H	NH ₂
amino acid	acyl	Cl	H	NH-cyclopropyl
amino acid	acyl	Cl	H	NH-methyl
amino acid		Cl	$\frac{\Pi}{H}$	
amino acid	acyl			NH-ethyl
	acyl	Cl	H	NH-acetyl
amino acid	acyl	Cl	H	OH
amino acid	acyl	Cl	H	OMe

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	acyl	Cl	H	OEt
amino acid	acyl	Cl	H	O-cyclopropyl
amino acid	acyl	Cl	H	O-acetyl
amino acid	acyl	Cl	H	SH
amino acid	acyl	Cl	H	SMe
amino acid	acyl	Cl	H	SEt
amino acid	acyl	Cl	H	S-cyclopropyl
amino acid	acyl	CI	H	F S-cyclopropyr
amino acid	acyl	Cl	H	Cl
amino acid	acyl	Cl	H	Br
amino acid	acyl	CI	$\frac{H}{H}$	I
acyl	H	F	$\frac{H}{H}$	H
	H	F	H	
acyl	H	F		NH ₂
acyl	H		H	NH-cyclopropyl
acyl		F	H	NH-methyl
acyl	H	F	H	NH-ethyl
acyl	H	F	H	NH-acetyl
acyl	Н	F	H	ОН
acyl	H	F	H	OMe
acyl	H	F	H	OEt
acyl	H	F	H	O-cyclopropyl
acyl	H	F	Н	O-acetyl
acyl	Н	F	H	SH
acyl	H	F	Н	SMe
acyl	H	F	Н	SEt
acyl	H	F	H	S-cyclopropyl
acyl	H	F	H	F
acyl	H	F	H	Cl
acyl	H	F	H	Br
acyl	H	F	H	I
acyl	acyl	F	H	Н
acyl	acyl	F	H	NH ₂
acyl	acyl	F	H	NH-cyclopropyl
acyl	acyl	F	Н	NH-methyl
acyl	acyl	F	Н	NH-ethyl
acyl	acyl	F	H	NH-acetyl
acyl	acyl	F	H	ОН
acyl	acyl	F	H	OMe
acyl	acyl	——————————————————————————————————————	H	OEt
acyl	acyl	F	H	O-cyclopropyl
acyl	acyl	F	$\frac{\mathbf{H}}{\mathbf{H}}$	
acyl		F		O-acetyl
	acyl		H	SH
acyl	acyl	F	H	SMe
acyl	acyl	F	H	SEt
acyl	acyl	F	H	S-cyclopropyl
acyl	acyl	F	H	F
acyl	acyl	F	H	Cl

\mathbb{R}^2	\mathbb{R}^3	X^1	X ²	Y
acyl	acyl	F	Н	Br
acyl	acyl	F	H	I
acyl	amino acid	F	H	Н
acyl	amino acid	F	H	NH ₂
acyl	amino acid	F	H	NH-cyclopropyl
acyl	amino acid	F	H	NH-methyl
acyl	amino acid	F	H	NH-ethyl
acyl	amino acid	F	H	NH-acetyl
acyl	amino acid	F	H	ОН
acyl	amino acid	F	H	OMe
acyl	amino acid	F	H	OEt
acyl	amino acid	F	H	O-cyclopropyl
acyl	amino acid	F	H	O-acetyl
acyl	amino acid	F	H	SH
acyl	amino acid	F	H	SMe
acyl	amino acid	F	H	SEt
acyl	amino acid	F	H	S-cyclopropyl
acyl	amino acid	F	H	F
acyl	amino acid	F	H	Cl
acyl	amino acid	F	H	Br
acyl	amino acid	F	H	I
H	acyl	F	H	H
H	acyl	F	H	NH ₂
H	acyl	F	H	NH-cyclopropyl
H	acyl	F	Н	NH-methyl
Н	acyl	F	Н	NH-ethyl
H	acyl	F	H	NH-acetyl
Н	acyl	F	H	OH
H	acyl	F	Н	OMe
Н	acyl	F	H	OEt
H	acyl	F	H	O-cyclopropyl
Н	acyl	F	H	O-acetyl
Н	acyl	F	H	SH
H	acyl	F	H	SMe
H	acyl	F	H	SEt
Н	acyl	F	H	S-cyclopropyl
Н	acyl	F	Н	F
Н	acyl	F	Н	Cl
Н	acyl	F	H	Br
Н	acyl	F	H	I
Н	amino acid	F	H	H
Н	amino acid	F	H	NH ₂
H	amino acid	F	H	NH-cyclopropyl
H	amino acid	F	H	NH-methyl
H	amino acid	F	H	NH-ethyl
H	amino acid	F	H	NH-acetyl
H	amino acid	F	H	OH
L**	animo aciu	1.4	111	UII

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
H	amino acid	F	H	OMe
H	amino acid	F	H	OEt
H	amino acid	F	H	O-cyclopropyl
Н	amino acid	F	H	O-acetyl
H	amino acid	F	H	SH
H	amino acid	F	H	SMe
H	amino acid	F	H	SEt
H	amino acid	$\frac{1}{F}$	H	S-cyclopropyl
H	amino acid	F	H	F
Н	amino acid	F	H	Cl
Н	amino acid	F	H	Br
H	amino acid	F	H	I
amino acid	amino acid	F	H	H
amino acid	amino acid	F	H	NH ₂
amino acid	amino acid	F	H	NH-cyclopropyl
amino acid	amino acid	F	H	NH-methyl
amino acid	amino acid	F	H	NH-ethyl
amino acid	amino acid	F	H	NH-acetyl
amino acid	amino acid	F	H	OH
amino acid	amino acid	F	H	OMe
amino acid	amino acid	F	H	OEt
amino acid	amino acid	F	H	O-cyclopropyl
amino acid	amino acid	F	H	O-acetyl
amino acid	amino acid	F	H	SH
amino acid	amino acid	F	H	SMe
amino acid	amino acid	F	Н	SEt
amino acid	amino acid	F	H	S-cyclopropyl
amino acid	amino acid	F	H	F
amino acid	amino acid	F	Н	Cl
amino acid	amino acid	F	Н	Br
amino acid	amino acid	F	Н	I
amino acid	Н	F	Н	Н
amino acid	H	F	Н	NH ₂
amino acid	H	F	Н	NH-cyclopropyl
amino acid	Н	F	Н	NH-methyl
amino acid	H	F	Н	NH-ethyl
amino acid	Н	F	Н	NH-acetyl
amino acid	Н	F	H	OH
amino acid	H	F	Н	OMe
amino acid	H	F	H	OEt
amino acid	Н	F	Н	O-cyclopropyl
amino acid	Н	F	Н	O-acetyl
amino acid	H	F	H	SH
amino acid	Н	F	H	SMe
amino acid	H	F	H	SEt
amino acid	H	F	$\frac{H}{H}$	S-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	X	X ²	Y
amino acid	H	F	H	Cl
amino acid	Н	F	Н	Br
amino acid	H	F	H	I
amino acid	acyl	F	H	H
amino acid	acyl	F	Н	NH ₂
amino acid	acyl	F	Н	NH-cyclopropyl
amino acid	acyl	F	H	NH-methyl
amino acid	acyl	F	H	NH-ethyl
amino acid	acyl	F	H	NH-acetyl
amino acid	acyl	F	Н	OH
amino acid	acyl	F	H	OMe
amino acid	acyl	F	H	OEt
amino acid	acyl	F	H	O-cyclopropyl
amino acid	acyl	F	H	O-acetyl
amino acid	acyl	F	H	SH
amino acid	acyl	F	H	SMe
amino acid	acyl	F	H	SEt
amino acid	acyl	F	H	S-cyclopropyl
amino acid	acyl	F	H	F
amino acid	acyl	F	H	Cl
amino acid	acyl	F	H	Br
amino acid	acyl	F	H	I
acyl	Н	NH ₂	H	H
acyl	H	NH ₂	H	NH ₂
acyl	Н	NH ₂	H	NH-cyclopropyl
acyl	H	NH ₂	H	NH-methyl
acyl	Н	NH ₂	H	NH-ethyl
acyl	Н	NH ₂	H	NH-acetyl
acyl	Н	NH ₂	H	ОН
acyl	H	NH ₂	H	OMe
acyl	Н	NH ₂	Н	OEt
acyl	H	NH ₂	H	O-cyclopropyl
acyl	Н	NH ₂	H	O-acetyl
acyl	H	NH ₂	H	SH
acyl	Н	NH ₂	Н	SMe
acyl	Н	NH ₂	Н	SEt
acyl	Н	NH ₂	H	S-cyclopropyl
acyl	Н	NH ₂	H	F
acyl	Н	NH ₂	H	Cl
acyl	Н	NH ₂	H	Br
acyl	H	NH ₂	H	I
acyl	acyl	NH ₂	H	H
acyl	acyl	NH ₂	H	NH ₂
acyl	acyl	NH ₂	H	NH-cyclopropyl
acyl	acyl	NH ₂	H	NH-methyl
acyl	acyl	NH ₂	H	NH-ethyl
acyl	acyl	NH ₂	H	
ucy i	acyi	11112	п	NH-acetyl

\mathbb{R}^2	R ³	X	X ²	Y
acyl	acyl	NH ₂	H	OH
acyl	acyl	NH ₂	Н	OMe
acyl	acyl	NH ₂	H	OEt
acyl	acyl	NH ₂	H	O-cyclopropyl
acyl	acyl	NH ₂	H	O-acetyl
acyl	acyl	NH ₂	H	SH
acyl	acyl	NH ₂	H	SMe
acyl	acyl	NH ₂	H	SEt
acyl	acyl	NH ₂	H	S-cyclopropyl
acyl	acyl	NH ₂	H	F
acyl	acyl	NH ₂	H	Cl
acyl	acyl	NH ₂	H	Br
acyl	acyl	NH ₂	H	I
acyl	amino acid	NH ₂	H	H
acyl	amino acid	NH ₂	H	NH ₂
	amino acid		Н	
acyl		NH ₂		NH-cyclopropyl
acyl	amino acid	NH ₂	H	NH-methyl
acyl	amino acid	NH ₂	H	NH-ethyl
acyl	amino acid	NH ₂	H	NH-acetyl
acyl	amino acid	NH ₂	H	OH
acyl	amino acid	NH ₂	H	OMe
acyl	amino acid	NH ₂	H	OEt
acyl	amino acid	NH ₂	H	O-cyclopropyl
acyl	amino acid	NH ₂	H	O-acetyl
acyl	amino acid	NH ₂	H	SH
acyl	amino acid	NH ₂	H	SMe
acyl	amino acid	NH ₂	H	SEt
acyl	amino acid	NH ₂	H	S-cyclopropyl
acyl	amino acid	NH ₂	H	F
acyl	amino acid	NH ₂	H	Cl
acyl	amino acid	NH ₂	H	Br
acyl	amino acid	NH ₂	H	I
H	acyl	NH ₂	Н	Н
H	acyl	NH ₂	H	NH ₂
H	acyl	NH ₂	H	NH-cyclopropyl
Η .	acyl	NH ₂	H	NH-methyl
Н	acyl	NH ₂	Н	NH-ethyl
Н	acyl	NH ₂	Н	NH-acetyl
Н	acyl	NH ₂	Н	OH
Н	acyl	NH ₂	Н	OMe
H	acyl	NH ₂	Н	OEt
H	acyl	NH ₂	H	O-cyclopropyl
H	acyl	NH ₂	H	O-acetyl
H	acyl	NH ₂	H	SH
H	acyl	NH ₂	H	SMe
H	acyl	NH ₂	H H	SEt
H	acyl	NH ₂	H H	S-cyclopropyl
<u></u>	acyı	11112	111	1 3-cyclopropyi

\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
acyl	NH ₂	Н	F
	NH ₂	Н	Cl
	NH ₂	Н	Br
	NH ₂	H	I
_ _			Н
			NH ₂
			NH-cyclopropyl
			NH-methyl
			NH-ethyl
			NH-acetyl
			ОН
			OMe
			OEt
			O-cyclopropyl
			O-acetyl
			SH
			SMe
			SEt
			S-cyclopropyl
			F
			Cl
			Br
			Ī
amino acid	NH ₂	Н	Н
amino acid	NH ₂	Н	NH ₂
amino acid	NH ₂	Н	NH-cyclopropyl
amino acid	NH ₂	Н	NH-methyl
amino acid	NH ₂	H	NH-ethyl
amino acid	NH ₂	Н	NH-acetyl
amino acid	NH ₂	H	ОН
amino acid	NH ₂	Н	OMe
amino acid	NH ₂	Н	OEt
amino acid	NH ₂	H	O-cyclopropyl
amino acid	NH ₂	Н	O-acetyl.
amino acid	NH ₂	Н	SH
amino acid	NH ₂	H	SMe
amino acid	NH ₂	Н	SEt
amino acid	NH ₂	H	S-cyclopropyl
amino acid	NH ₂	H	F
amino acid	NH ₂	H	Cl
amino acid	NH ₂	Н	Br
amino acid	NH ₂	Н	I
Н	NH ₂	Н	Н
11			
H	NH ₂	H	NH ₂
	NH ₂	H	
Н			NH ₂ NH-cyclopropyl NH-methyl
	acyl acyl acyl acyl amino acid	acyl NH2 acyl NH2 acyl NH2 acyl NH2 acyl NH2 amino acid NH2	acyl NH2 H amino acid NH2 H

\mathbb{R}^2	R ³	X ¹	X^2	Y
amino acid	Н	NH ₂	Н	NH-acetyl
amino acid	Н	NH ₂	H	OH
amino acid	Н	NH ₂	H	OMe
amino acid	H	NH ₂	Н	OEt
amino acid	Н	NH ₂	H	O-cyclopropyl
amino acid	H	NH ₂	H	O-acetyl
amino acid	Н	NH ₂	H	SH
amino acid	Н	NH ₂	H	SMe
amino acid	Н	NH ₂	H	SEt
amino acid	Н	NH ₂	H	S-cyclopropyl
amino acid	Н	NH ₂	H	F
amino acid	Н	NH ₂	H	Cl
amino acid	Н	NH ₂	H	Br
amino acid	H	NH ₂	H	I
amino acid	acyl	NH ₂	H	H
amino acid	acyl	NH ₂	H	NH ₂
amino acid	acyl	NH ₂	H	NH-cyclopropyl
amino acid	acyl	NH ₂	H	NH-methyl
amino acid	acyl	NH ₂	H	NH-ethyl
amino acid	acyl	NH ₂	H	NH-acetyl
amino acid	acyl	NH ₂	H	OH
amino acid	acyl	NH ₂	H	OMe
amino acid	acyl	NH ₂	H	OEt
amino acid	acyl	NH ₂	H	O-cyclopropyl
amino acid	acyl	NH ₂	H	O-acetyl
amino acid	acyl	NH ₂	H	SH
amino acid	acyl	NH ₂	Н	SMe
amino acid	acyl	NH ₂	Н	SEt
amino acid	acyl	NH ₂	H	S-cyclopropyl
amino acid	acyl	NH ₂	H	F
amino acid	acyl	NH ₂	H	Cl
amino acid	acyl	NH ₂	Н	Br
amino acid	acyl	NH ₂	Н	I
acyl	Н	SH	Н	Н
acyl	Н	SH	Н	NH ₂
acyl	H	SH	Н	NH-cyclopropyl
acyl	Н	SH	H	NH-methyl
acyl	Н	SH	H	NH-ethyl
acyl	H	SH	H	NH-acetyl
acyl	H	SH	H	OH
acyl	H	SH	H	OMe
acyl	H	SH	H	OEt
acyl	H	SH	H	O-cyclopropyl
acyl	H	SH	H	O-acetyl
acyl	H	SH	H	SH
acyl	H	SH	H	SMe
acyl	H	SH	H	SEt
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\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
acyl	Н	SH	Н	S-cyclopropyl
acyl	Н	SH	H	F
acyl	H	SH	Н	Cl
acyl	H	SH	Н	Br
acyl	H	SH	H	I
acyl	acyl	SH	Н	Н
acyl	acyl	SH	Н	NH ₂
acyl	acyl	SH	Н	NH-cyclopropyl
acyl	acyl	SH	Н	NH-methyl
acyl	acyl	SH	H	NH-ethyl
acyl	acyl	SH	Н	NH-acetyl
acyl	acyl	SH	Н	OH
acyl	acyl	SH	H	OMe
acyl	acyl	SH	H	OEt
acyl	acyl	SH	Н	O-cyclopropyl
acyl	acyl	SH	H	O-acetyl
acyl	acyl	SH	Н	SH
acyl	acyl	SH	H	SMe
acyl	acyl	SH	H	SEt
acyl	acyl	SH	Н	S-cyclopropyl
acyl	acyl	SH	Н	F
acyl	acyl	SH	H	Cl
acyl	acyl	SH	Н	Br
acyl	acyl	SH	Н	I
acyl	amino acid	SH	Н	Н
acyl	amino acid	SH	H	NH ₂
acyl	amino acid	SH	H	NH-cyclopropyl
acyl	amino acid	SH	Н	NH-methyl
acyl	amino acid	SH	Н	NH-ethyl
acyl	amino acid	SH	H	NH-acetyl
acyl	amino acid	SH	H	OH
acyl	amino acid	SH	H	OMe
acyl	amino acid	SH	H	OEt
acyl	amino acid	SH	H	O-cyclopropyl
acyl	amino acid	SH	H	O-acetyl
acyl	amino acid	SH	H	SH
acyl	amino acid	SH	H	SMe
acyl	amino acid	SH	Н	SEt
acyl	amino acid	SH	H	S-cyclopropyl
acyl	amino acid	SH	H	F
acyl	amino acid	SH	Н	Cl
acyl	amino acid	SH	H	Br
acyl	amino acid	SH	H	I
H	acyl	SH	Н	Н
Н	acyl	SH	Н	NH ₂
Н	acyl	SH	H	NH-cyclopropyl
H	acyl	SH	Н	NH-methyl

R ²	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
Н	acyl	SH	Н	NH-ethyl
Н	acyl	SH	H	NH-acetyl
Н	acyl	SH	H	ОН
H	acyl	SH	Н	OMe
Н	acyl	SH	Н	OEt
Н	acyl	SH	H	O-cyclopropyl
Н	acyl	SH	H	O-acetyl
H	acyl	SH	Н	SH
Н	acyl	SH	H	SMe
H	acyl	SH	H	SEt
Н	acyl	SH	H	S-cyclopropyl
Н	acyl	SH	H	F
Н	acyl	SH	H	Cl
Н	acyl	SH	H	Br
H	acyl	SH	H	I
H	amino acid	SH	H	H
H	amino acid	SH	Н	NH ₂
Н	amino acid	SH	H	NH-cyclopropyl
Н	amino acid	SH	H	NH-methyl
H	amino acid	SH	H	NH-ethyl
H	amino acid	SH	H	NH-acetyl
H	amino acid	SH	H	OH
H	amino acid	SH	Н	OMe
H	amino acid	SH	H	OEt
Н	amino acid	SH	Н	O-cyclopropyl
H	amino acid	SH	H	O-acetyl
Н	amino acid	SH	H	SH
H	amino acid	SH	Н	SMe
H	amino acid	SH	Н	SEt
H	amino acid	SH	H	S-cyclopropyl
H	amino acid	SH	H	F
H	amino acid	SH	H	Cl
H	amino acid	SH	H	Br
H	amino acid	SH	H	I
amino acid	amino acid	SH	H	H
amino acid	amino acid	SH	H	NH ₂
amino acid	amino acid	SH	H	NH-cyclopropyl
amino acid	amino acid	SH	H	NH-methyl
amino acid	amino acid	SH	H	NH-ethyl
amino acid	amino acid	SH	H	NH-acetyl
amino acid	amino acid	SH	H	OH
amino acid	amino acid	SH	H	OMe
amino acid	amino acid	SH	H	OEt
amino acid	amino acid	SH	H	O-cyclopropyl
amino acid	amino acid	SH	H	O-acetyl
amino acid	amino acid	SH	H	SH
amino acid	amino acid	SH	H	SMe

R ²	\mathbb{R}^3	X¹	X ²	Y
amino acid	amino acid	SH	H	SEt
amino acid	amino acid	SH	H	S-cyclopropyl
amino acid	amino acid	SH	Н	F
amino acid	amino acid	SH	H	Cl
amino acid	amino acid	SH	Н	Br
amino acid	amino acid	SH	H	I
amino acid	H	SH	H	Н
amino acid	H	SH	Н	NH ₂
amino acid	H	SH	Н	NH-cyclopropyl
amino acid	H	SH	H	NH-methyl
amino acid	H	SH	Н	NH-ethyl
amino acid	H	SH	H	NH-acetyl
amino acid	Н	SH	Н	OH
amino acid	Н	SH	Н	OMe
amino acid	Н	SH	H	OEt
amino acid	Н	SH	Н	O-cyclopropyl
amino acid	H	SH	H	O-acetyl
amino acid	H	SH	H	SH
amino acid	Н	SH	Н	SMe
amino acid	H	SH	Н	SEt
amino acid	H	SH	Н	S-cyclopropyl
amino acid	H	SH	H	F
amino acid	Н	SH	H	Cl
amino acid	H	SH	H	Br
amino acid	H	SH	Н	I
amino acid	acyl	SH	H	Н
amino acid	acyl	SH	H	NH ₂
amino acid	acyl	SH	H	NH-cyclopropyl
amino acid	acyl	SH	H	NH-methyl
amino acid	acyl	SH	H	NH-ethyl
amino acid	acyl	SH	H	NH-acetyl
amino acid	acyl	SH	H	ОН
amino acid	acyl	SH	H	OMe
amino acid	acyl	SH	H	OEt
amino acid	acyl	SH	H	O-cyclopropyl
amino acid	acyl	SH	H	O-acetyl
amino acid	acyl	SH	H	SH
amino acid	acyl	SH	H	SMe
amino acid	acyl	SH	H	SEt
amino acid	acyl	SH	H	S-cyclopropyl
amino acid	acyl	SH	Н	F
amino acid	acyl	SH	H	Cl
amino acid	acyl	SH	H	Br
amino acid	acyl	SH	Н	I
acyl	Н	ОН	H	Н
acyl	Н	ОН	H	NH ₂
acyl	Н	ОН	Н	NH-cyclopropyl

R ²	R ³	X^1	X ²	Y
acyl	H	OH	Н	NH-methyl
acyl	H	ОН	H	NH-ethyl
acyl	H	OH	H	NH-acetyl
acyl	H	OH	H	OH
acyl	Н	OH	H	OMe
acyl	Н	OH	Н	OEt
acyl	Н	OH	Н	O-cyclopropyl
acyl	Н	OH	Н	O-acetyl
acyl	H	OH	Н	SH
acyl	H	ОН	H	SMe
acyl	H	OH	Н	SEt
acyl	H	ОН	H	S-cyclopropyl
acyl	H	ОН	Н	F
acyl	H	OH	H	Cl
acyl	H	OH	Н	Br
acyl	H	ОН	H	I
acyl	acyl	ОН	Н	H
acyl	acyl	ОН	H	NH ₂
acyl	acyl	OH	H	NH-cyclopropyl
acyl	acyl	OH	H	NH-methyl
acyl	acyl	OH	H	NH-ethyl
acyl	acyl	ОН	H	NH-acetyl
acyl	acyl	ОН	H	OH
acyl	acyl	OH	H	OMe
acyl	acyl	OH	H	OEt
acyl	acyl	ОН	H	O-cyclopropyl
acyl	acyl	ОН	Н	O-acetyl
acyl	acyl	OH	H	SH
acyl	acyl	ОН	H	SMe
acyl	acyl	OH	H	SEt
acyl	acyl	ОН	H	S-cyclopropyl
acyl	acyl	OH	Н	F
acyl	acyl	OH	H	Cl
acyl	acyl	OH	H	Br
acyl	acyl	OH	H	I
acyl	amino acid	OH	H	H
acyl	amino acid	OH	H	NH ₂
acyl	amino acid	OH	H	NH-cyclopropyl
acyl	amino acid	OH	H	NH-methyl
acyl	amino acid	OH	H	NH-ethyl
acyl	amino acid	OH	H	NH-acetyl
acyl	amino acid	OH	H	ОН
acyl	amino acid	ОН	H	OMe
acyl	amino acid	OH	H	OEt
acyl	amino acid	OH	H	O-cyclopropyl
acyl	amino acid	OH	H	O-acetyl
acyl	amino acid	OH	H	SH

acyl acyl acyl acyl	amino acid	OII	77	
acyl		OH	H	SMe
	amino acid	OH	Н	SEt
acyl	amino acid	OH	Н	S-cyclopropyl
ı <i>ı</i> -	amino acid	OH	Н	F
acyl	amino acid	OH	Н	Cl
acyl	amino acid	OH	H	Br
acyl	amino acid	OH	Н	I
H	acyl	OH	H	Н
H	acyl	ОН	Н	NH ₂
H	acyl	OH	Н	NH-cyclopropyl
H	acyl	OH	Н	NH-methyl
H	acyl	OH	Н	NH-ethyl
H	acyl	OH	H	NH-acetyl
H	acyl	OH	Н	ОН
H	acyl	OH	Н	OMe
Н	acyl	ОН	Н	OEt
H	acyl	OH	H	O-cyclopropyl
Н	acyl	OH	H	O-acetyl
H	acyl	OH	Н	SH
Н	acyl	OH	Н	SMe
Н	acyl	OH	Н	SEt
H	acyl	OH	Н	S-cyclopropyl
Н	acyl	OH	Н	F
Н	acyl	ОН	Н	Cl
H	acyl	OH	H	Br
H	acyl	OH	Н	I
Н	amino acid	OH	Н	Н
H	amino acid	OH	H	NH ₂
H	amino acid	OH	H	NH-cyclopropyl
H	amino acid	ОН	H	NH-methyl
H	amino acid	OH	Н	NH-ethyl
H	amino acid	OH	H	NH-acetyl
Н	amino acid	OH	H	ОН
H	amino acid	ОН	Н	OMe
H	amino acid	ОН	H	OEt
H	amino acid	ОН	Н	O-cyclopropyl
Н	amino acid	OH	Н	O-acetyl
Н	amino acid	OH	Н	SH
Н	amino acid	ОН	Н	SMe
Н	amino acid	ОН	Н	SEt
Н	amino acid	OH	Н	S-cyclopropyl
Н	amino acid	OH	Н	F
Н	amino acid	OH	Н	Cl
H	amino acid	OH	H	Br
Н	amino acid	OH	Н	I
amino acid	amino acid	OH	H	Н
amino acid	amino acid	OH	H	NH ₂

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
amino acid	amino acid	OH	H	NH-cyclopropyl
amino acid	amino acid	OH	H	NH-methyl
amino acid	amino acid	OH	H	NH-ethyl
amino acid	amino acid	OH	H	NH-acetyl
amino acid	amino acid	OH	H	OH
amino acid	amino acid	OH	H	OMe
amino acid	amino acid	OH	H	OEt
amino acid	amino acid	OH	H	O-cyclopropyl
amino acid	amino acid	OH	H	O-acetyl
amino acid	amino acid	OH	H -	SH
amino acid	amino acid	OH	H	SMe
amino acid	amino acid	OH	$\frac{\Pi}{H}$	SEt
amino acid	amino acid	OH	H	
amino acid	amino acid			S-cyclopropyl
amino acid		OH OH	H	F
amino acid	amino acid		H	Cl
	amino acid	OH	H	Br
amino acid	amino acid	OH	H	I
amino acid	H	OH	H	H
amino acid	H	OH	H	NH ₂
amino acid	H	OH	H	NH-cyclopropyl
amino acid	H	OH	Н	NH-methyl
amino acid	H	OH	Н	NH-ethyl
amino acid	H	OH	H	NH-acetyl
amino acid	H	OH	H	OH
amino acid	H	ОН	H	OMe
amino acid	H	OH_	H	OEt
amino acid	H	OH	H	O-cyclopropyl
amino acid	H	OH	H	O-acetyl
amino acid	H	OH	H	SH
amino acid	H	OH	H	SMe
amino acid	H	OH	H	SEt
amino acid	H	OH	H	S-cyclopropyl
amino acid	H	OH	H	F
amino acid	H	OH	H	Cl
amino acid	H	OH	H	Br
amino acid	H	OH	Н	I
amino acid	acyl	ОН	Н	Н
amino acid	acyl	OH	Н	NH ₂
amino acid	acyl	OH	Н	NH-cyclopropyl
amino acid	acyl	OH	Н	NH-methyl
amino acid	acyl	OH	Н	NH-ethyl
amino acid	acyl	ОН	H	NH-acetyl
amino acid	acyl	ОН	H	OH
amino acid	acyl	OH	H	OMe
amino acid	acyl	OH	H	OEt
amino acid	acyl	OH	H	O-cyclopropyl
amino acid	acyl	OH	H	O-acetyl
animo acid	1 acyr	Un	111	U-acciyi

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	acyl	OH	H	SH
amino acid	acyl	OH	H	SMe
amino acid	acyl	OH	Н	SEt
amino acid	acyl	ОН	Н	S-cyclopropyl
amino acid	acyl	OH	Н	F
amino acid	acyl	OH	Н	Cl
amino acid	acyl	OH	H	Br
amino acid	acyl	OH	Н	I

Table 2

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	H	CH ₃	Br	Н
acyl	H	CH ₃	Br	NH ₂
acyl	H	CH ₃	Br	NH-cyclopropyl
acyl	Н	CH ₃	Br	NH-methyl
acyl	Н	CH ₃	Br	NH-ethyl
acyl	Н	CH ₃	Br	NH-acetyl
acyl	H	CH ₃	Br	ОН
acyl	Н	CH ₃	Br	OMe
acyl	Н	CH ₃	Br	OEt
acyl	H	CH ₃	Br	O-cyclopropyl
acyl	H	CH ₃	Br	O-acetyl
acyl	Н	CH ₃	Br	SH
acyl	Н	CH ₃	Br	SMe
acyl	Н	CH ₃	Br	SEt
acyl	H	CH ₃	Br	S-cyclopropyl
acyl	Н	CH ₃	Br	F
acyl	Н	CH ₃	Br	Cl
acyl	Н	CH ₃	Br	Br
acyl	Н	CH ₃	Br	I
acyl	acyl	CH ₃	Br	H
acyl	acyl	CH ₃	Br	NH ₂
acyl	acyl	CH ₃	Br	NH-cyclopropyl
acyl	acyl	CH ₃	Br	NH-methyl
acyl	acyl	CH ₃	Br	NH-ethyl
acyl	acyl	CH ₃	Br	NH-acetyl
acyl	acyl	CH ₃	Br	OH
acyl	acyl	CH ₃	Br	OMe
acyl	acyl	CH ₃	Br	OEt
acyl	acyl	CH ₃	Br	O-cyclopropyl
acyl	acyl	CH ₃	Br	O-acetyl
acyl	acyl	CH ₃	Br	SH
acyl	acyl	CH ₃	Br	SMe
acyl	acyl	CH ₃	Br	SEt
acyl	acyl	CH ₃	Br	S-cyclopropyl
acyl	acyl	CH ₃	Br	F
acyl	acyl	CH ₃	Br	Cl
acyl	acyl	CH ₃	Br	Br
acyl	acyl	CH ₃	Br	I
acyl	amino acid	CH₃	Br	Н
acyl	amino acid	CH ₃	Br	NH ₂
acyl	amino acid	CH ₃	Br	NH-cyclopropyl
acyl	amino acid	CH ₃	Br	NH-methyl
acyl	amino acid	CH ₃	Br	NH-ethyl
acyl	amino acid	CH ₃	Br	NH-acetyl
acyl	amino acid	CH ₃	Br	OH

R ²	\mathbb{R}^3	X ¹	X ²	Y
acyl	amino acid	CH ₃	Br	OMe
acyl	amino acid	CH ₃	Br	OEt
acyl	amino acid	CH ₃	Br	O-cyclopropyl
acyl	amino acid	CH ₃	Br	O-acetyl
acyl	amino acid	CH ₃	Br	SH
acyl	amino acid	CH ₃	Br	SMe
acyl	amino acid	CH ₃	Br	SEt
acyl	amino acid	CH₃	Br	S-cyclopropyl
acyl	amino acid	CH ₃	Br	F
acyl	amino acid	CH ₃	Br	Cl
acyl	amino acid	CH ₃	Br	Br
acyl	amino acid	CH ₃	Br	I
Н	acyl	CH ₃	Br	H
H	acyl	CH ₃	Br	NH ₂
H	acyl	CH ₃	Br	NH-cyclopropyl
H	acyl	CH ₃	Br	NH-methyl
H	acyl	CH ₃	Br	NH-ethyl
H	acyl	CH ₃	Br	NH-acetyl
H	acyl	CH ₃	Br	OH
Н	acyl	CH ₃	Br	OMe
Н	acyl	CH ₃	Br	OEt
Н	acyl	CH ₃	Br	O-cyclopropyl
H	acyl	CH ₃	Br	O-acetyl
H	acyl	CH ₃	Br	SH
H	acyl	CH ₃	Br	SMe
H	acyl	CH ₃	Br	SEt
H	acyl	CH ₃	Br	S-cyclopropyl
H	acyl	CH ₃	Br	F
H	acyl	CH ₃	Br	Cl
H	acyl	CH ₃	Br	Br
H	acyl	CH ₃	Br	I
H	amino acid	CH ₃	Br	Н
Н	amino acid	CH ₃	Br	NH ₂
H	amino acid	CH ₃	Br	NH-cyclopropyl
Н	amino acid	CH ₃	Br	NH-methyl
H	amino acid	CH ₃	Br	NH-ethyl
Н	amino acid	CH ₃	Br	NH-acetyl
Н	amino acid	CH ₃	Br	OH
H	amino acid	CH ₃	Br	OMe
H	amino acid	CH ₃	Br	OEt
Н	amino acid	CH ₃	Br	O-cyclopropyl
H	amino acid	CH ₃	Br	O-acetyl
H	amino acid	CH ₃	Br	SH
H	amino acid	CH ₃	Br	SMe
H	amino acid	CH ₃	Br	SEt
H	amino acid	CH ₃	Br	S-cyclopropyl
H	amino acid	CH ₃	Br	F
	annio acid	C113	1 1/1	

R ²	\mathbb{R}^3	X ¹	X ²	Y
H	amino acid	CH ₃	Br	Cl
Н	amino acid	CH ₃	Br	Br
Н	amino acid	CH ₃	Br	I
amino acid	amino acid	CH ₃	Br	Н
amino acid	amino acid	CH ₃	Br	NH ₂
amino acid	amino acid	CH ₃	Br	NH-cyclopropyl
amino acid	amino acid	CH ₃	Br	NH-methyl
amino acid	amino acid	CH ₃	Br	NH-ethyl
amino acid	amino acid	CH ₃	Br	NH-acetyl
amino acid	amino acid	CH ₃	Br	OH
amino acid	amino acid	CH ₃	Br	OMe
amino acid	amino acid	CH ₃	Br	OEt
amino acid	amino acid	CH ₃	Br	O-cyclopropyl
amino acid	amino acid	CH ₃	Br	O-acetyl
amino acid	amino acid	CH ₃	Br	SH
amino acid	amino acid	CH ₃	Br	SMe
amino acid	amino acid	CH ₃	Br	SEt
amino acid	amino acid	CH ₃	Br	S-cyclopropyl
amino acid	amino acid	CH ₃	Br	F
amino acid	amino acid	CH ₃	Br	Cl
amino acid	amino acid	CH ₃	Br	Br
amino acid	amino acid	CH ₃	Br	I
amino acid	Н	CH ₃	Br	Н
amino acid	Н	CH ₃	Br	NH ₂
amino acid	Н	CH ₃	Br	NH-cyclopropyl
amino acid	Н	CH ₃	Br	NH-methyl
amino acid	Н	CH ₃	Br	NH-ethyl
amino acid	Н	CH ₃	Br	NH-acetyl
amino acid	H	CH ₃	Br	OH
amino acid	Н	CH ₃	Br	OMe
amino acid	Н	CH ₃	Br	OEt
amino acid	Н	CH ₃	Br	O-cyclopropyl
amino acid	Н	CH ₃	Br	O-acetyl
amino acid	Н	CH ₃	Br	SH
amino acid	Н	CH ₃	Br	SMe
amino acid	H	CH ₃	Br	SEt
amino acid	H	CH ₃	Br	S-cyclopropyl
amino acid	Н	CH ₃	Br	F
amino acid	Н	CH ₃	Br	Cl
amino acid	H	CH ₃	Br	Br
amino acid	Н	CH ₃	Br	I
amino acid	acyl	CH ₃	Br	H
amino acid	acyl	CH ₃	Br	NH ₂
amino acid	acyl	CH ₃	Br	NH-cyclopropyl
amino acid	acyl	CH ₃	Br	NH-methyl
amino acid	acyl	CH ₃	Br	NH-ethyl
amino acid	acyl	CH ₃	Br	NH-acetyl
		ULIS	1	1 111 acctyl

R ²	R ³	X¹	\mathbf{X}^2	Y
amino acid	acyl	CH ₃	Br	ОН
amino acid	acyl	CH ₃	Br	OMe
amino acid	acyl	CH ₃	Br	OEt
amino acid	acyl	CH ₃	Br	O-cyclopropyl
amino acid	acyl	CH ₃	Br	O-acetyl
amino acid	acyl	CH ₃	Br	SH
amino acid	acyl	CH ₃	Br	SMe
amino acid	acyl	CH ₃	Br	SEt
amino acid	acyl	CH ₃	Br	S-cyclopropyl
amino acid	acyl	CH ₃	Br	F
amino acid	acyl	CH ₃	Br	Cl
amino acid	acyl	CH ₃	Br	Br
amino acid	acyl	CH ₃	Br	I
acyl	H	CF ₃	Br	H
acyl	H	CF ₃	Br	NH ₂
acyl	H	CF ₃	Br	NH-cyclopropyl
acyl	H	CF ₃	Br	NH-methyl
acyl	H	CF ₃	Br	NH-ethyl
acyl	Н	CF ₃	Br	NH-acetyl
acyl	H	CF ₃	Br	OH
acyl	H	CF ₃	Br	OMe
acyl	Н	CF ₃	Br	OEt
acyl	H	CF ₃	Br	O-cyclopropyl
acyl	Н	CF ₃	Br	O-acetyl
acyl	Н	CF ₃	Br	SH
acyl	Н	CF ₃	Br	SMe
acyl	Н	CF ₃	Br	SEt
acyl	Н	CF ₃	Br	S-cyclopropyl
acyl	H	CF ₃	Br	F
acyl	Н	CF ₃	Br	Cl
acyl	H	CF ₃	Br	Br
acyl	Н	CF ₃	Br	I
acyl	acyl	CF ₃	Br	Н
acyl	acyl	CF ₃	Br	NH ₂
acyl	acyl	CF ₃	Br	NH-cyclopropyl
acyl	acyl	CF ₃	Br	NH-methyl
acyl	acyl	CF ₃	Br	NH-ethyl
acyl	acyl	CF ₃	Br	NH-acetyl
acyl	acyl	CF ₃	Br	ОН
acyl	acyl	CF ₃	Br	OMe
acyl	acyl	CF ₃	Br	OEt
acyl	acyl	CF ₃	Br	O-cyclopropyl
acyl	acyl	CF ₃	Br	O-acetyl
acyl	acyl	CF ₃	Br	SH
acyl	acyl	CF ₃	Br	SMe
acyl	acyl	CF ₃	Br	SEt
acyl	acyl	CF ₃	Br	S-cyclopropyl

R ²	\mathbb{R}^3	X ¹	X ²	Y
acyl	acyl	CF ₃	Br	F
acyl	acyl	CF ₃	Br	Cl
acyl	acyl	CF ₃	Br	Br
acyl	acyl	CF ₃	Br	I
acyl	amino acid	CF ₃	Br	Н
acyl	amino acid	CF ₃	Br	NH ₂
acyl	amino acid	CF ₃	Br	NH-cyclopropyl
acyl	amino acid	CF ₃	Br	NH-methyl
acyl	amino acid	CF ₃	Br	NH-ethyl
acyl	amino acid	CF ₃	Br	NH-acetyl
acyl	amino acid	CF ₃	Br	OH
acyl	amino acid	CF ₃	Br	OMe
acyl	amino acid	CF ₃	Br	OEt
acyl	amino acid	CF ₃	Br	O-cyclopropyl
acyl	amino acid	CF ₃	Br	O-acetyl
acyl	amino acid	CF ₃	Br	SH
acyl	amino acid	CF ₃	Br	SMe
acyl	amino acid	CF ₃	Br	SEt
acyl	amino acid	CF ₃	Br	S-cyclopropyl
acyl	amino acid	CF ₃	Br	F
acyl	amino acid	CF ₃	Br	Cl
acyl	amino acid	CF ₃	Br	Br
acyl	amino acid	CF ₃	Br	I
H	acyl	CF ₃	Br	Н
H	acyl	CF ₃	Br	NH ₂
H	acyl	CF ₃	Br	NH-cyclopropyl
H	acyl	CF ₃	Br	NH-methyl
H	acyl	CF ₃	Br	NH-ethyl
Н	acyl	CF ₃	Br	NH-acetyl
H	acyl	CF ₃	Br	OH
Н	acyl	CF ₃	Br	OMe
Н	acyl	CF ₃	Br	OEt
H	acyl	CF ₃	Br	O-cyclopropyl
H	acyl	CF ₃	Br	O-acetyl
Н	acyl	CF ₃	Br	SH
Н	acyl	CF ₃	Br	SMe
Н	acyl	CF ₃	Br	SEt
Н	acyl	CF ₃	Br	S-cyclopropyl
H	acyl	CF ₃	Br	F
H	acyl	CF ₃	Br	Cl
H	acyl	CF ₃	Br	Br
H	acyl	CF ₃	Br	I
H	amino acid	CF ₃	Br	Н
H	amino acid	CF ₃	Br	NH ₂
H	amino acid	CF ₃	Br	NH-cyclopropyl
Н	amino acid	CF ₃	Br	NH-methyl
H	amino acid	CF ₃	Br	NH-ethyl

R ²	\mathbb{R}^3	X ¹	X ²	Y
H	amino acid	CF ₃	Br	NH-acetyl
H	amino acid	CF ₃	Br	OH
H	amino acid	CF ₃	Br	OMe
H	amino acid	CF ₃	Br	OEt
H	amino acid	CF ₃	Br	O-cyclopropyl
H	amino acid	CF ₃	Br	O-acetyl
H	amino acid	CF ₃	Br	SH
H	amino acid	CF ₃	Br	SMe
H	amino acid	CF ₃	Br	SEt
H	amino acid	CF ₃	Br	S-cyclopropyl
H	amino acid	CF ₃	Br	F
Н	amino acid	CF ₃	Br	Cl
H	amino acid	CF ₃	Br	Br
H	amino acid	CF ₃	Br	I
amino acid	amino acid	CF ₃	Br	H
amino acid	amino acid	CF ₃	Br	NH ₂
amino acid	amino acid	CF ₃	Br	NH-cyclopropyl
amino acid	amino acid	CF ₃	Br	NH-methyl
amino acid	amino acid	CF ₃	Br	NH-ethyl
amino acid	amino acid	CF ₃	Br	NH-acetyl
amino acid	amino acid	CF ₃	Br	OH
amino acid	amino acid	CF ₃	Br	OMe
amino acid	amino acid	CF ₃	Br	OEt
amino acid	amino acid	CF ₃	Br	O-cyclopropyl
amino acid	amino acid	CF ₃	Br	O-acetyl
amino acid	amino acid	CF ₃	Br	SH
amino acid	amino acid	CF ₃	Br	SMe
amino acid	amino acid	CF ₃	Br	SEt
amino acid	amino acid	CF ₃	Br	S-cyclopropyl
amino acid	amino acid	CF ₃	Br	F
amino acid	amino acid	CF ₃	Br	Cl
amino acid	amino acid	CF ₃	Br	Br
amino acid	amino acid	CF ₃	Br	Ī
amino acid	Н	CF ₃	Br	Н
amino acid	H	CF ₃	Br	NH ₂
amino acid	Н	CF ₃	Br	NH-cyclopropyl
amino acid	Н	CF ₃	Br	NH-methyl
amino acid	Н	CF ₃	Br	NH-ethyl
amino acid	Н	CF ₃	Br	NH-acetyl
amino acid	Н	CF ₃	Br	OH
amino acid	Н	CF ₃	Br	OMe
amino acid	Н	CF ₃	Br	OEt
amino acid	Н	CF ₃	Br	O-cyclopropyl
amino acid	Н	CF ₃	Br	O-acetyl
amino acid	Н	CF ₃	Br	SH
amino acid	Н	CF ₃	Br	SMe
amino acid	Н	CF ₃	Br	SEt

R ²	R ³	X ¹	X ²	Y
amino acid	Н	CF ₃	Br	S-cyclopropyl
amino acid	Н	CF ₃	Br	F
amino acid	H	CF ₃	Br	Cl
amino acid	Н	CF ₃	Br	Br
amino acid	H	CF ₃	Br	I
amino acid	acyl	CF ₃	Br	H
amino acid	acyl	CF ₃	Br	NH ₂
amino acid	acyl	CF ₃	Br	NH-cyclopropyl
amino acid	acyl	CF ₃	Br	NH-methyl
amino acid	acyl	CF ₃	Br	NH-ethyl
amino acid	acyl	CF ₃	Вг	NH-acetyl
amino acid	acyl	CF ₃	Br	OH
amino acid	acyl	CF ₃	Br	OMe
amino acid	acyl	CF ₃	Br	OEt
amino acid	acyl	CF ₃	Br	O-cyclopropyl
amino acid	acyl	CF ₃	Br	O-acetyl
amino acid	acyl	CF ₃	Br	SH
amino acid	acyl	CF ₃	Br	SMe
amino acid	acyl	CF ₃	Br	SEt
amino acid	acyl	CF ₃	Br	S-cyclopropyl
amino acid	acyl	CF ₃	Br	F
amino acid	acyl	CF ₃	Br	Cl
amino acid	acyl	CF ₃	Br	Br
amino acid	acyl	CF ₃	Br	I
acyl	H	Br	Br	H
acyl	H	Br	Br	NH ₂
acyl	H	Br	Br	NH-cyclopropyl
acyl	H	Br	Br	NH-methyl
acyl	H	Br	Br	NH-ethyl
acyl	H	Br	Br	NH-acetyl
acyl	H	Br	Br	OH
acyl	H	Br	Br	OMe
acyl	H	Br	Br	OEt
acyl	H	Br	Br	O-cyclopropyl
acyl	H	Br	Br	O-acetyl
acyl	H	Br	Br	SH
acyl	H	Br	Br	SMe
acyl	H	Br	Br	SEt
acyl	H	Br	Br	S-cyclopropyl
acyl	H	Br	Br	F S-cyclopropyi
acyl	H	Br	Br	Cl
acyl	H	Br	Br	Br
acyl	Н	Br		I
			Br	H
acyl	acyl	Br	Br	
acyl	acyl	Br	Br	NH ₂
acyl	acyl	Br	Br	NH-cyclopropyl
acyl	acyl	Br	Br	NH-methyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	acyl	Br	Br	NH-ethyl
acyl	acyl	Br	Br	NH-acetyl
acyl	acyl	Br	Br	ОН
acyl	acyl	Br	Br	OMe
acyl	acyl	Br	Br	OEt
acyl	acyl	Br	Br	O-cyclopropyl
acyl	acyl	Br	Br	O-acetyl
acyl	acyl	Br	Br	SH
acyl	acyl	Br	Br	SMe
acyl	acyl	Br	Br	SEt
acyl	acyl	Br	Br	S-cyclopropyl
acyl	acyl	Br	Br	F
acyl	acyl	Br	Br	Cl
acyl	acyl	Br	Br	Br
acyl	acyl	Br	Br	I
acyl	amino acid	Br	Br	Н
acyl	amino acid	Br	Br	NH ₂
acyl	amino acid	Br	Br	NH-cyclopropyl
acyl	amino acid	Br	Br	NH-methyl
acyl	amino acid	Br	Br	NH-ethyl
acyl	amino acid	Br	Br	NH-acetyl
acyl	amino acid	Br	Br	ОН
acyl	amino acid	Br	Br	OMe
acyl	amino acid	Br	Br	OEt
acyl	amino acid	Br	Br	O-cyclopropyl
acyl	amino acid	Br	Br	O-acetyl
acyl	amino acid	Br	Br	SH
acyl	amino acid	Br	Br	SMe
acyl	amino acid	Br	Br	SEt
acyl	amino acid	Br	Br	S-cyclopropyl
acyl	amino acid	Br	Br	F
acyl	amino acid	Br	Br	Cl
acyl	amino acid	Br	Br	Br
acyl	amino acid	Br	Br	I
H	acyl	Br	Br	Н
Н	acyl	Br	Br	NH ₂
Н	acyl	Br	Br	NH-cyclopropyl
Н	acyl	Br	Br	NH-methyl
Н	acyl	Br	Br	NH-ethyl
H	acyl	Br	Br	NH-acetyl
Н	acyl	Br	Br	OH
Н	acyl	Br	Br	OMe
Н	acyl	Br	Br	OEt
Н	acyl	Br	Br	O-cyclopropyl
H	acyl	Br	Br	O-acetyl
Н	acyl	Br	Br	SH
H	acyl	Br	Br	SMe

H acyl Br Br SEt H acyl Br Br S-cyclopropyl H acyl Br Br Br S-cyclopropyl H acyl Br Br Br Cl H acyl Br Br Br Cl H acyl Br Br Br I H amino acid Br Br H H amino acid Br Br NH-2 H amino acid Br Br NH-cyclopropyl H amino acid Br Br NH-ethyl H amino acid Br Br NH-ethyl H amino acid Br Br OH H amino acid Br Br O-cyclopropyl H amino acid Br Br O-cyclopropyl H amino acid Br Br SH H amino acid Br Br SH H amino acid Br Br SEt H amino acid Br Br SEt H amino acid Br Br SEt H amino acid Br Br ST H amino acid Br Br SH amino acid Br Br SH H amino acid Br Br SH H amino acid Br Br SH amino acid Br Br SH H amino acid Br Br SH H amino acid Br Br SH amino acid Br Br Br SH H amino acid Br Br Br S-cyclopropyl amino acid amino acid Br Br Br H amino acid Br Br Br H amino acid Br Br Br SH H amino acid Br Br Br SH H amino acid Br Br Br SH amino acid amino acid Br Br Br SH-ethyl amino acid amino acid Br Br OH-ethyl amino acid amino acid Br Br SH amino acid Am	\mathbb{R}^2	R ³	X^1	X ²	Y
H acyl Br Br Cl H acyl Br Br Br Cl H acyl Br Br Br I H amino acid Br Br H H amino acid Br Br NH-cyclopropyl H amino acid Br Br NH-ethyl H amino acid Br Br NH-ethyl H amino acid Br Br OH H amino acid Br Br OCetopropyl H amino acid Br Br SH H amino acid Br Br SH H amino acid Br Br SE H amino acid Br Br SE H amino acid Br Br SE H amino acid Br Br SCetopropyl H amino acid Br Br Cl H amino acid Br Br I Amino acid Br Br I Amino acid Br Br Br NH-cyclopropyl amino acid amino acid Br Br DOH amino acid amino acid Br Br NH-cyclopropyl amino acid amino acid Br Br NH-cyclopropyl amino acid amino acid Br Br NH-cyclopropyl amino acid amino acid Br Br OOH amino acid amino acid Br Br OH amino acid amino acid Br Br SH amino acid amino aci		acyl	Br	Br	SEt
H Acyl Br Br Br Cl H Acyl Br Br Br Cl H Acyl Br Br Br Cl H Acyl Br Br Br Br Cl H Br Br Br Cl H Br Br Br Br Cl H Br Br Br Br Br I I I I I I I I I I I I		acyl	Br	Br	S-cyclopropyl
H acyl Br Br Br I H amino acid Br Br NH-cyclopropyl H amino acid Br Br NH-cyclopropyl H amino acid Br Br NH-cyclopropyl H amino acid Br Br NH-methyl H amino acid Br Br NH-cyclopropyl H amino acid Br Br NH-methyl H amino acid Br Br NH-acetyl H amino acid Br Br OH H amino acid Br Br OH H amino acid Br Br OH H amino acid Br Br OC-cyclopropyl H amino acid Br Br O-cyclopropyl H amino acid Br Br SH H amino acid Br Br S-cyclopropyl H amino acid Br Br S-cyclopropyl H amino acid Br Br SH H SH-cyclopropyl Br SH Amino acid Br Br SH-cyclopropyl Amino acid Amino acid Br Br SH Amino acid Br Br OH Amino acid Br Br SH Amino acid Br Br OH Amino acid Br Br SH Amino		acyl	Br	Br	
H amino acid Br Br Br NH-cyclopropyl H amino acid Br Br Br O-cyclopropyl H amino acid Br Br Dr NH-ethyl Br Br NH-ethyl Br Dr Dr NH-ethyl Br Dr NH-ethyl Amino acid Br Br Dr Dr NH-ethyl Br Dr NH-ethyl Amino acid Br Br Dr NH-ethyl Amino acid Amino acid Br Br Dr NH-ethyl Amino acid Amino acid Br Br Dr NH-ethyl Amino acid Amino acid Br Br Dr Dr NH-ethyl Amino acid Amino acid Br Br Dr Dr NH-ethyl Amino acid Amino acid Br Br Dr		acyl	Br	Br	Cl
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amino acid H Br Br NH-cyclopropyl			+		

\mathbb{R}^2	R ³	X ¹	\mathbf{X}^2	Y
amino acid	Н	Br	Br	NH-methyl
amino acid	Н	Br	Br	NH-ethyl
amino acid	Н	Br	Br	NH-acetyl
amino acid	H	Br	Br	ОН
amino acid	H	Br	Br	OMe
amino acid	Н	Br	Br	OEt
amino acid	H	Br	Br	O-cyclopropyl
amino acid	Н	Br	Br	O-acetyl
amino acid	H	Br	Br	SH
amino acid	H	Br	Br	SMe
amino acid	Н	Br	Br	SEt
amino acid	Н	Br	Br	S-cyclopropyl
amino acid	Н	Br	Br	F
amino acid	H	Br	Br	Cl
amino acid	Н	Br	Br	Br
amino acid	Н	Br	Br	I
amino acid	acyl	Br	Br	Н
amino acid	acyl	Br	Br	NH ₂
amino acid	acyl	Br	Br	NH-cyclopropyl
amino acid	acyl	Br	Br	NH-methyl
amino acid	acyl	Br	Br	NH-ethyl
amino acid	acyl	Br	Br	NH-acetyl
amino acid	acyl	Br	Br	OH
amino acid	acyl	Br	Br	OMe
amino acid	acyl	Br	Br	OEt
amino acid	acyl	Br	Br	O-cyclopropyl
amino acid	acyl	Br	Br	O-acetyl
amino acid	acyl	Br	Br	SH
amino acid	acyl	Br	Br	SMe
amino acid	acyl	Br	Br	SEt
amino acid	acyl	Br	Br	S-cyclopropyl
amino acid	acyl	Br	Br	F
amino acid	acyl	Br	Br	Cl
amino acid	acyl	Br	Br	Br
amino acid	acyl	Br	Br	I
acyl	Н	Cl	Br	H
acyl	H	Cl	Br	NH ₂
acyl	H	Cl	Br	NH-cyclopropyl
acyl	H	CI	Br	NH-methyl
acyl	H	Cl	Br	NH-ethyl
acyl	Н	Cl	Br	NH-acetyl
acyl	H	Cl	Br	ОН
acyl	H	Cl	Br	OMe
acyl	H	CI	Br	OEt
acyl	H	Cl	Br	O-cyclopropyl
acyl	H	Cl	Br	O-acetyl
acyl	H	Cl	Br	SH

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	Н	Cl	Br	SMe
acyl	H	Cl	Br	SEt
acyl	Н	Cl	Br	S-cyclopropyl
acyl	H	Cl	Br	F
acyl	H	Cl	Br	Cl
acyl	H	Cl	Br	Br
acyl	H	Cl	Br	I
acyl	acyl	Cl	Br	Н
acyl	acyl	Cl	Br	NH ₂
acyl	acyl	Cl	Br	NH-cyclopropyl
acyl	acyl	Cl	Br	NH-methyl
acyl	acyl	Cl	Br	NH-ethyl
acyl	acyl	Cl	Br	NH-acetyl
acyl	acyl	Cl	Br	OH
acyl	acyl	Cl	Br	OMe
acyl	acyl	Cl	Br	OEt
acyl	acyl	Cl	Br	O-cyclopropyl
acyl	acyl	Cl	Br	O-acetyl
acyl	acyl	Cl	Br	SH
acyl	acyl	Cl	Br	SMe
acyl	acyl	Cl	Br	SEt
acyl	acyl	Cl	Br	S-cyclopropyl
acyl	acyl	Cl	Br	F
acyl	acyl	Cl	Br	Cl
acyl	acyl	Cl	Br	Br
acyl	acyl	Cl	Br	I
acyl	amino acid	Cl	Br	Н
acyl	amino acid	Cl	Br	NH ₂
acyl	amino acid	Cl	Br	NH-cyclopropyl
acyl	amino acid	Cl	Br	NH-methyl
acyl	amino acid	Cl	Br	NH-ethyl
acyl	amino acid	Cl	Br	NH-acetyl
acyl	amino acid	Cl	Br	ОН
acyl	amino acid	Cl	Br	OMe
acyl	amino acid	Cl	Br	OEt
acyl	amino acid	Cl	Br	O-cyclopropyl
acyl	amino acid	Cl	Br	O-acetyl
acyl	amino acid	Cl	Br	SH
acyl	amino acid	Cl	Br	SMe
acyl	amino acid	Cl	Br	SEt
acyl	amino acid	Cl	Br	S-cyclopropyl
acyl	amino acid	C1	Br	F
acyl	amino acid	Cl	Br	Cl
acyl	amino acid	Cl	Br	Br
acyl	amino acid	Cl	Br	I
Н	acyl	Cl	Br	H
H	acyl	Cl	Br	NH ₂

\mathbb{R}^2	R ³	X ¹	X ²	Y
H	acyl	Cl	Br	NH-cyclopropyl
H	acyl	Cl	Br	NH-methyl
Н	acyl	Cl	Br	NH-ethyl
Н	acyl	Cl	Br	NH-acetyl
Н	acyl	Cl	Br	OH
Н	acyl	Cl	Br	OMe
H	acyl	Cl	Br	OEt
H	acyl	Cl	Br	O-cyclopropyl
H	acyl	Cl	Br	O-acetyl
H	acyl	Cl	Br	SH
Н	acyl	Cl	Br	SMe
H	acyl	Cl	Br	SEt
H	acyl	Cl	Br	S-cyclopropyl
H	acyl	Cl	Br	F
H	acyl	Cl	Br	Cl
H	acyl	Cl	Br	Br
H	acyl	Cl	Br	I
Н	amino acid	Cl	Br	Н
Н	amino acid	Cl	Br	NH ₂
H	amino acid	Cl	Br	NH-cyclopropyl
H	amino acid	Cl	Br	NH-methyl
H	amino acid	Cl	Br	NH-ethyl
H	amino acid	Cl	Br	NH-acetyl
H	amino acid	Cl	Br	OH
Н	amino acid	Cl	Br	OMe
Н	amino acid	Cl	Br	OEt
H	amino acid	Cl	Br	O-cyclopropyl
Н	amino acid	C1	Br	O-acetyl
Н	amino acid	Cl	Br	SH
Н	amino acid	Cl	Br	SMe
Н	amino acid	Cl	Br	SEt
Н	amino acid	Cl	Br	S-cyclopropyl
Н	amino acid	CI	Br	F
H	amino acid	Cl	Br	Cl
Н	amino acid	Cl	Br	Br
H	amino acid	Cl	Br	I
amino acid	amino acid	C1	Br	H
amino acid	amino acid	Cl	Br	NH ₂
amino acid	amino acid	Cl	Br	NH-cyclopropyl
amino acid	amino acid	Cl	Br	NH-methyl
amino acid	amino acid	Cl	Br	NH-ethyl
amino acid	amino acid	CI	Br	NH-acetyl
amino acid	amino acid	Cl	Br	OH
amino acid	amino acid	Cl	Br	OMe
amino acid	amino acid	Cl	Br	OEt
amino acid	amino acid	Cl	Br	O-cyclopropyl
amino acid	amino acid	Cl	Br	O-acetyl

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	Cl	Br	SH
amino acid	amino acid	Cl	Br	SMe
amino acid	amino acid	Cl	Br	SEt
amino acid	amino acid	Cl	Br	S-cyclopropyl
amino acid	amino acid	Cl	Br	F
amino acid	amino acid	Cl	Br	Cl
amino acid	amino acid	Cl	Br	Br
amino acid	amino acid	Cl	Br	Ī
amino acid	H	Cl	Br	H
amino acid	H	Cl	Br	NH ₂
amino acid	Н	Cl	Br	NH-cyclopropyl
amino acid	H	Cl	Br	NH-methyl
amino acid	H	Cl	Br	NH-ethyl
amino acid	H	Cl	Br	NH-acetyl
amino acid	H	Cl	Br	OH
amino acid	Н	Cl	Br	OMe
amino acid	H	Cl	Br	OEt
amino acid	H	Cl	Br	O-cyclopropyl
amino acid	H	Cl	Br	O-acetyl
amino acid	H	Cl	Br	SH
amino acid	H	Cl	Br	SMe
amino acid	H	Cl	Br	SEt
amino acid	H	Cl	Br	S-cyclopropyl
amino acid	H	Cl	Br	F
amino acid	H	Cl	Br	Cl
amino acid	H	CI	Br	Br
amino acid	Н	Cl	Br	I
amino acid	acyl	Cl	Br	Н
amino acid	acyl	Cl	Br	NH ₂
amino acid	acyl	Cl	Br	NH-cyclopropyl
amino acid	acyl	Cl	Br	NH-methyl
amino acid	acyl	Cl	Br	NH-ethyl
amino acid	acyl	Cl	Br	NH-acetyl
amino acid	acyl	Cl	Br	OH
amino acid	acyl	Cl	Br	OMe
amino acid	acyl	Cl	Br	OEt
amino acid	acyl	Cl	Br	O-cyclopropyl
amino acid	acyl	Cl	Br	O-acetyl
amino acid	acyl	Cl	Br	SH
amino acid	acyl	Cl	Br	SMe
amino acid	acyl	Cl	Br	SEt
amino acid	acyl	Cl	Br	S-cyclopropyl
amino acid	acyl	Cl	Br	F
amino acid	acyl	Cl	Br	Cl
amino acid			Br	Br
amino acid	acyl acyl	Cl Cl	Br Br	Br I

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	H	F	Br	NH ₂
acyl	H	F	Br	NH-cyclopropyl
acyl	H	F	Br	NH-methyl
acyl	H	F	Br	NH-ethyl
acyl	H	F	Br	NH-acetyl
acyl	H	F	Br	OH
acyl	Н	F	Br	OMe
acyl	H	F	Br	OEt
acyl	H	F	Br	O-cyclopropyl
acyl	H	F	Br	O-acetyl
acyl	H	$\frac{1}{F}$	Br	SH
acyl	H	F	Br	SMe
acyl	H	F	Br	SEt
acyl	H	F	Br	S-cyclopropyl
acyl	H	F	Br	F
acyl	H	F	Br	Cl
acyl	H	F	Br	Br
acyl	H	F	Br	I
acyl	acyl	F	Br	H
acyl	acyl	F	Br	$-\frac{11}{NH_2}$
acyl	acyl	F	Br	NH-cyclopropyl
acyl	acyl	F	Br	NH-methyl
acyl	acyl	F	Br	NH-ethyl
acyl	acyl	F	Br	NH-acetyl
acyl	acyl	F	Br	OH
acyl	acyl	F	Br	OMe
acyl	acyl	F	Br	OEt
acyl	acyl	F	Br	O-cyclopropyl
acyl	acyl	F	Br	O-acetyl
acyl	acyl	F	Br	SH
acyl	acyl	F	Br	SMe
acyl	acyl	F	Br	SEt
acyl	acyl	F	Br	S-cyclopropyl
acyl	acyl	F	Br	F
acyl	acyl	F	Br	Cl
acyl	acyl	F	Br	Br
acyl	acyl	F	Br	I
acyl	amino acid	F	Br	H ·
acyl	amino acid	F	Br	NH ₂
acyl	amino acid	F	Br	NH-cyclopropyl
acyl	amino acid	F	Br	NH-methyl
acyl	amino acid	F	Br	NH-ethyl
acyl	amino acid	F	Br	NH-acetyl
acyl	amino acid	F	Br	OH OH
acyl	amino acid	F	Br	OMe
acyl	amino acid	F	Br	OEt

R ²	R ³	X ¹	\mathbf{X}^2	Y
acyl	amino acid	F	Br	O-acetyl
acyl	amino acid	F	Br	SH
acyl	amino acid	F	Br	SMe
acyl	amino acid	F	Br	SEt
acyl	amino acid	F	Br	S-cyclopropyl
acyl	amino acid	F	Br	F
acyl	amino acid	F	Br	Cl
acyl	amino acid	F	Br	Br
acyl	amino acid	F	Br	I
H	acyl	F	Br	H
Н	acyl	$\frac{1}{F}$	Br	NH ₂
Н	acyl	F	Br	NH-cyclopropyl
Н	acyl	F	Br	NH-methyl
H	acyl	F	Br	NH-ethyl
H	acyl	F	Br	NH-acetyl
H	acyl	F	Br	OH
H	acyl	F	Br	OMe
H	acyl	F	Br	OEt
H	acyl	F	Br	O-cyclopropyl
H	acyl	F	Br	O-acetyl
H	acyl	F	Br	SH
H	acyl	F	Br	SMe
H	acyl	F	Br	SEt
Н	acyl	F	Br	S-cyclopropyl
Н	acyl	F	Br	F
Н	acyl	F	Br	Cl
Н	acyl	F	Br	Br
Н	acyl	F	Br	I
Н	amino acid	F	Br	$\frac{1}{H}$
H	amino acid	F	Br	NH ₂
Н	amino acid	F	Br	NH-cyclopropyl
Н	amino acid	F	Br	NH-methyl
H	amino acid	F	Br	NH-ethyl
Н	amino acid	F	Br	NH-acetyl
H	amino acid	F	Br	OH
Н	amino acid	F	Br	OMe
H	amino acid	$-\frac{1}{F}$	Br	OEt
Н	amino acid	F	Br	O-cyclopropyl
H	amino acid	F	Br	O-acetyl
H	amino acid	F	Br	SH SH
H	amino acid	F	Br	SMe
H	amino acid	F	Br	SEt
H	amino acid	F	Br	S-cyclopropyl
H	amino acid	F	Br	F S-cyclopropyl
H	amino acid	F	Br	Cl
H	amino acid	$\frac{\mathbf{F}}{\mathbf{F}}$		
H			Br	Br
11	amino acid	F	Br	I

\mathbb{R}^2	\mathbb{R}^3	X	X ²	Y
amino acid	amino acid	F	Br	Н
amino acid	amino acid	F	Br	NH ₂
amino acid	amino acid	F	Br	NH-cyclopropyl
amino acid	amino acid	F	Br	NH-methyl
amino acid	amino acid	F	Br	NH-ethyl
amino acid	amino acid	F	Br	NH-acetyl
amino acid	amino acid	F	Br	ОН
amino acid	amino acid	F	Br	OMe
amino acid	amino acid	F	Br	OEt
amino acid	amino acid	F	Br	O-cyclopropyl
amino acid	amino acid	F	Br	O-acetyl
amino acid	amino acid	F	Br	SH
amino acid	amino acid	F	Br	SMe
amino acid	amino acid	F	Br	SEt
amino acid	amino acid	F	Br	S-cyclopropyl
amino acid	amino acid	F	Br	F S-cyclopropyi
amino acid	amino acid	F	Br	Cl
amino acid	amino acid	F	Br	Br
amino acid	amino acid	F	Br	I
amino acid	H	F	Br	H
amino acid	H	F	Br	NH ₂
amino acid	H	F	Br	NH-cyclopropyl
amino acid	H	F	Br	NH-methyl
amino acid	H	$\frac{1}{F}$	Br	NH-ethyl
amino acid	H	$\frac{1}{F}$	Br	NH-acetyl
amino acid	H	F	Br	OH
amino acid	H	F	Br	OMe
amino acid	H	F	Br	OEt
amino acid	Ĥ	F	Br	O-cyclopropyl
amino acid	H	F	Br	O-acetyl
amino acid	H	F	Br	SH
amino acid	H	F	Br	SMe
amino acid	H	F	Br	SEt
amino acid	H	F	Br	S-cyclopropyl
amino acid	H	F	Br	F
amino acid	H	F	Br	Cl
amino acid	H	F	Br	Br
amino acid	H	F	Br	I
amino acid	acyl	F	Br	H
amino acid	acyl	F	Br	NH ₂
amino acid	acyl	F	Br	NH-cyclopropyl
amino acid	acyl	F	Br	NH-methyl
amino acid	acyl	F	Br	NH-ethyl
amino acid		F	Br	NH-acetyl
amino acid	acyl	F		OH
	acyl	F	Br	
amino acid	acyl		Br	OMe
amino acid	acyl	F	∐Br	OEt

R^2	R ³	X ¹	X ²	Y
amino acid	acyl	F	Br	O-cyclopropyl
amino acid	acyl	F	Br	O-acetyl
amino acid	acyl	F	Br	SH
amino acid	acyl	F	Br	SMe
amino acid	acyl	F	Br	SEt
amino acid	acyl	F	Br	S-cyclopropyl
amino acid	acyl	F	Br	F
amino acid	acyl	F	Br	CI
amino acid	acyl	F	Br	Br
amino acid	acyl	F	Br	
acyl	H	NH ₂	Br	H
acyl	H	NH ₂	Br	NH ₂
acyl	Н	NH ₂	Br	NH-cyclopropyl
acyl	Н	NH ₂	Br	NH-methyl
acyl	Н	NH ₂	Br	NH-ethyl
acyl	Н	NH ₂	Br	NH-acetyl
acyl	H	NH ₂	Br	OH
acyl	Н	NH ₂	Br	OMe
acyl	Н	NH ₂	Br	OEt
acyl	Н	NH ₂	Br	O-cyclopropyl
acyl	Н	NH ₂	Br	O-acetyl
acyl	H	NH ₂	Br	SH
acyl	H	NH ₂	Br	SMe
acyl	H	NH ₂	Br	SEt
acyl	H	NH ₂	Br	S-cyclopropyl
acyl	Н	NH ₂	Br	F
acyl	Н	NH ₂	Br	CI
acyl	Н	NH ₂	Br	Br
acyl	H	NH ₂	Br	I
acyl	acyl	NH ₂	Br	H
acyl	acyl	NH ₂	Br	NH ₂
acyl	acyl	NH ₂	Br	NH-cyclopropyl
acyl	acyl	NH ₂	Br	NH-methyl
acyl	acyl	NH ₂	Br	NH-ethyl
acyl	acyl	NH ₂	Br	NH-acetyl
acyl	acyl	NH ₂	Br	OH
acyl	acyl	NH ₂	Br	OMe
acyl	acyl	NH ₂	Br	OEt
acyl	acyl	NH ₂	Br	O-cyclopropyl
acyl	acyl	NH ₂	Br	O-acetyl
acyl	acyl	NH ₂	Br	SH
acyl	acyl	NH ₂	Br	SMe
acyl	acyl	NH ₂	Br	SEt
acyl	acyl	NH ₂	Br	S-cyclopropyl
acyl	acyl	NH ₂	Br	F
acyl	acyl	NH ₂	Br	Cl
acyl	acyl	NH ₂	Br	Br

R ²	R ³	X ¹	X ²	Y
acyl	acyl	NH ₂	Br	I
acyl	amino acid	NH ₂	Br	H
acyl	amino acid	NH ₂	Br	NH ₂
acyl	amino acid	NH ₂	Br	NH-cyclopropyl
acyl	amino acid	NH ₂	Br	NH-methyl
acyl	amino acid	NH ₂	Br	NH-ethyl
acyl	amino acid	NH ₂	Br	NH-acetyl
acyl	amino acid	NH ₂	Br	ОН
acyl	amino acid	NH ₂	Br	OMe
acyl	amino acid	NH ₂	Br	OEt
acyl	amino acid	NH ₂	Br	O-cyclopropyl
acyl	amino acid	NH ₂	Br	O-acetyl
acyl	amino acid	NH ₂	Br	SH
acyl	amino acid	NH ₂	Br	SMe
acyl	amino acid	NH ₂	Br	SEt
acyl	amino acid	NH ₂	Br	S-cyclopropyl
acyl	amino acid	NH ₂	Br	F
acyl	amino acid	NH ₂	Br	Cl
acyl	amino acid	NH ₂	Br	Br
acyl	amino acid	NH ₂	Br	I
Н	acyl	NH ₂	Br	H
H	acyl	NH ₂	Br	NH ₂
Н	acyl	NH ₂	Br	NH-cyclopropyl
H	acyl	NH ₂	Br	NH-methyl
H	acyl	NH ₂	Br	NH-ethyl
Н	acyl	NH ₂	Br	NH-acetyl
Н	acyl	NH ₂	Br	OH
Н	acyl	NH ₂	Br	OMe
H	acyl	NH ₂	Br	OEt
H	acyl	NH ₂	Br	O-cyclopropyl
Н	acyl	NH ₂	Br	O-acetyl
H	acyl	NH ₂	Br	SH
Н	acyl	NH ₂	Br	SMe
H	acyl	NH ₂	Br	SEt
H	acyl	NH ₂	Br	S-cyclopropyl
H	acyl	NH ₂	Br	F
Н	acyl	NH ₂	Br	Cl
Н	acyl	NH ₂	Br	Br
H	acyl	NH ₂	Br	Ī
Н	amino acid	NH ₂	Br	H
H	amino acid	NH ₂	Br	NH ₂
Н	amino acid	NH ₂	Br	NH-cyclopropyl
H	amino acid	NH ₂	Br	NH-methyl
Н	amino acid	NH ₂	Br	NH-ethyl
Н	amino acid	NH ₂	Br	NH-acetyl
Н	amino acid	NH ₂	Br	ОН
Н	amino acid	NH ₂	Br	OMe

R ²	R ³	\mathbf{X}^{1}	X ²	Y
Н	amino acid	NH ₂	Br	OEt
Н	amino acid	NH ₂	Br	O-cyclopropyl
H	amino acid	NH ₂	Br	O-acetyl
H	amino acid	NH ₂	Br	SH
Н	amino acid	NH ₂	Br	SMe
Н	amino acid	NH ₂	Br	SEt
H	amino acid	NH ₂	Br	S-cyclopropyl
H	amino acid	NH ₂	Br	F
H	amino acid	NH ₂	Br	Cl
H	amino acid	NH ₂	Br	Br
H	amino acid	NH ₂	Br	Ī
amino acid	amino acid	NH ₂	Br	H
amino acid	amino acid	NH ₂	Br	NH ₂
amino acid	amino acid	NH ₂	Br	NH-cyclopropyl
amino acid	amino acid	NH ₂	Br	NH-methyl
amino acid	amino acid	NH ₂	Br	NH-ethyl
amino acid	amino acid	NH ₂	Br	NH-acetyl
amino acid	amino acid	NH ₂	Br	OH
amino acid	amino acid	NH ₂	Br	OMe
amino acid	amino acid	NH ₂	Br	OEt
amino acid	amino acid	NH ₂	Br	O-cyclopropyl
amino acid	amino acid	NH ₂	Br	O-acetyl
amino acid	amino acid	NH ₂	Br	SH
amino acid	amino acid	NH ₂	Br	SMe
amino acid	amino acid	NH ₂	Br	SEt
amino acid	amino acid	NH ₂	Br	S-cyclopropyl
amino acid	amino acid	NH ₂	Br	F
amino acid	amino acid	NH ₂	Br	Cl
amino acid	amino acid	NH ₂	Br	Br
amino acid	amino acid	NH ₂	Br	I
amino acid	H	NH ₂	Br	Н
amino acid	Н	NH ₂	Br	NH ₂
amino acid	H	NH ₂	Br	NH-cyclopropyl
amino acid	H	NH ₂	Br	NH-methyl
amino acid	H	NH ₂	Br	NH-ethyl
amino acid	H	NH ₂	Br	NH-acetyl
amino acid	Н	NH ₂	Br	OH
amino acid	Н	NH ₂	Br	OMe
amino acid	Н	NH ₂	Br	OEt
amino acid	Н	NH ₂	Br '	O-cyclopropyl
amino acid	Н	NH ₂	Br	O-acetyl
amino acid	H	NH ₂	Br	SH
amino acid	H	NH ₂	Br	SMe
amino acid	H	NH ₂	Br	SEt
amino acid	H	NH ₂	Br	S-cyclopropyl
amino acid	Н	NH ₂	Br	F
MANAGEMENT OF MANAGEMENT				

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	H	NH ₂	Br	Br
amino acid	H	NH ₂	Br	I
amino acid	acyl	NH ₂	Br	H
amino acid	acyl	NH ₂	Br	NH ₂
amino acid	acyl	NH ₂	Br	NH-cyclopropyl
amino acid	acyl	NH ₂	Br	NH-methyl
amino acid	acyl	NH ₂	Br	NH-ethyl
amino acid	acyl	NH ₂	Br	NH-acetyl
amino acid	acyl	NH ₂	Br	OH
amino acid	acyl	NH ₂	Br	OMe
amino acid	acyl	NH ₂	Br	OEt
amino acid	acyl	NH ₂	Br	O-cyclopropyl
amino acid	acyl	NH ₂	Br	O-acetyl
amino acid	acyl	NH ₂	Br	SH
amino acid	acyl	NH ₂	Br	SMe
amino acid	acyl	NH ₂	Br	SEt
amino acid	acyl	NH ₂	Br	S-cyclopropyl
amino acid	acyl	NH ₂	Br	F
amino acid	acyl	NH ₂	Br	Cl
amino acid	acyl	NH ₂	Br	Br
amino acid	acyl	NH ₂	Br	I
acyl	Н	SH	Br	Н
acyl	Н	SH	Br	NH ₂
acyl	Н	SH	Br	NH-cyclopropyl
acyl	Н	SH	Br	NH-methyl
acyl	H	SH	Br	NH-ethyl
acyl	H	SH	Br	NH-acetyl
acyl	Н	SH	Br	OH
acyl	Н	SH	Br	OMe
acyl	H	SH	Br	OEt
acyl	H	SH	Br	O-cyclopropyl
acyl	Н	SH	Br	O-acetyl
acyl	H	SH	Br	SH
acyl	Н	SH	Br	SMe
acyl	Н	SH	Br	SEt
acyl	Н	SH	Br	S-cyclopropyl
acyl	H	SH	Br	F
acyl	H	SH	Br	Cl
acyl	Н	SH	Br	Br
acyl	H	SH	Br	Ī
acyl	acyl	SH	Br	H
acyl	acyl	SH	Br	NH ₂
acyl	acyl	SH	Br	NH-cyclopropyl
acyl	acyl	SH	Br	NH-methyl
acyl	acyl	SH	Br	NH-ethyl
acyl	acyl	SH	Br	NH-acetyl
acyl	acyl	ŞH	Br	OH
4071	1 4031	1 211	T _D ī	1011

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	acyl	SH	Br	OMe
acyl	acyl	SH	Br	OEt
acyl	acyl	SH	Br	O-cyclopropyl
acyl	acyl	SH	Br	O-acetyl
acyl	acyl	SH	Br	SH
acyl	acyl	SH	Br	SMe
acyl	acyl	SH	Br	SEt
acyl	acyl	SH	Br	S-cyclopropyl
acyl	acyl	SH	Br	F
acyl	acyl	SH	Br	Cl
acyl	acyl	SH	Br	Br
acyl	acyl	SH	Br	I
acyl	amino acid	SH	Br	Н
acyl	amino acid	SH	Br	NH ₂
acyl	amino acid	SH	Br	NH-cyclopropyl
acyl	amino acid	SH	Br	NH-methyl
acyl	amino acid	SH	Br	NH-ethyl
acyl	amino acid	SH	Br	NH-acetyl
acyl	amino acid	SH	Br	ОН
acyl	amino acid	SH	Br	OMe
acyl	amino acid	SH	Br	OEt
acyl	amino acid	SH	Br	O-cyclopropyl
acyl	amino acid	SH	Br	O-acetyl
acyl	amino acid	SH	Br	SH
acyl	amino acid	SH	Br	SMe
acyl	amino acid	SH	Br	SEt
acyl	amino acid	SH	Br	S-cyclopropyl
acyl	amino acid	SH	Br	F
acyl	amino acid	SH	Br	CI
acyl	amino acid	SH	Br	Br
acyl	amino acid	SH	Br	I
H	acyl	SH	Br	Н
H	acyl	SH	Br	NH ₂
H	acyl	SH	Br	NH-cyclopropyl
H	acyl	SH	Br	NH-methyl
H	acyl	SH	Br	NH-ethyl
H	acyl	SH	Br	NH-acetyl
H	acyl	SH	Br	OH
H	acyl	SH	Br	OMe
H	acyl	SH	Br	OEt
H	acyl	SH	Br	O-cyclopropyl
H	acyl	SH	Br	O-acetyl
H	acyl	SH	Br	SH
H	acyl	SH	Br	SMe
H	acyl	SH	Br	SEt
H	acyl	SH	Br	S-cyclopropyl
H	acyl	SH	Br	F

\mathbb{R}^2	\mathbb{R}^3	X ¹	\mathbf{X}^2	Y
H	acyl	SH	Br	Cl
H	acyl	SH	Br	Br
H	acyl	SH	Br	Ī
H	amino acid	SH	Br	Н
Н	amino acid	SH	Br	NH ₂
H	amino acid	SH	Br	NH-cyclopropyl
Н	amino acid	SH	Br	NH-methyl
H	amino acid	SH	Br	NH-ethyl
Н	amino acid	SH	Br	NH-acetyl
H	amino acid	SH	Br	OH
H	amino acid	SH	Br	OMe
H	amino acid	SH	Br	OEt
H	amino acid	SH	Br	O-cyclopropyl
H	amino acid	SH	Br	O-acetyl
H	amino acid	SH	Br	SH
Н	amino acid	SH	Br	SMe
H	amino acid	SH	Br	SEt
H	amino acid	SH	Br	S-cyclopropyl
H	amino acid	SH	Br	F
H	amino acid	SH	Br	Cl
H	amino acid	SH	Br	Br
H	amino acid	SH	Br	I
amino acid	amino acid	SH	Br	H
amino acid	amino acid	SH	Br	NH ₂
amino acid	amino acid	SH	Br	NH-cyclopropyl
amino acid	amino acid	SH	Br	NH-methyl
amino acid	amino acid	SH	Br	NH-ethyl
amino acid	amino acid	SH	Br	NH-acetyl
amino acid	amino acid	SH	Br	OH OH
amino acid	amino acid	SH	Br	OMe
amino acid	amino acid	SH	Br	OEt
amino acid	amino acid	SH	Br	O-cyclopropyl
amino acid	amino acid	SH	Br	
amino acid	amino acid	SH	Br	O-acetyl SH
amino acid	amino acid	SH	Br	SMe
amino acid	amino acid	SH	Br	SEt
	+	+	+	
amino acid	amino acid	SH	Br	S-cyclopropyl
amino acid	amino acid		Br	F
	amino acid	SH	Br	Cl
amino acid	amino acid	SH	Br	Br
amino acid	amino acid	SH	Br	I
amino acid	H	SH	Br	H
amino acid	H	SH	Br	NH ₂
amino acid	H	SH	Br	NH-cyclopropyl
amino acid	H	SH	Br	NH-methyl
amino acid	H	SH	Br	NH-ethyl
amino acid	H	SH	Br	NH-acetyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	Н	SH	Br	OH
amino acid	H	SH	Br	OMe
amino acid	Н	SH	Br	OEt
amino acid	H	SH	Br	O-cyclopropyl
amino acid	H	SH	Br	O-acetyl
amino acid	H	SH	Br	SH
amino acid	Н	SH	Br	SMe
amino acid	H	SH	Br	SEt
amino acid	Н	SH	Br	S-cyclopropyl
amino acid	Н	SH	Br	F
amino acid	Н	SH	Br	CI
amino acid	H	SH	Br	Br
amino acid	H	SH	Br	I
amino acid	acyl	SH	Br	H
amino acid	acyl	SH	Br	NH ₂
amino acid	acyl	SH	Br	NH-cyclopropyl
amino acid	acyl	SH	Br	NH-methyl
amino acid	acyl	SH	Br	NH-ethyl
amino acid	acyl	SH	Br	NH-acetyl
amino acid	acyl	SH	Br	OH
amino acid	acyl	SH	Br	OMe
amino acid	acyl	SH	Br	OEt
amino acid	acyl	SH	Br	O-cyclopropyl
amino acid	acyl	SH	Br	O-acetyl
amino acid	acyl	SH	Br	SH
amino acid	acyl	SH	Br	SMe
amino acid	acyl	SH	Br	SEt
amino acid	acyl	SH	Br	S-cyclopropyl
amino acid	acyl	SH	Br	F
amino acid	acyl	SH	Br	Cl
amino acid	acyl	SH	Br	Br
amino acid	acyl	SH	Br	I
acyl	H	OH	Br	H
acyl	Н	OH	Br	NH ₂
acyl	Н	OH	Br	NH-cyclopropyl
acyl	Н	ОН	Br	NH-methyl
acyl	Н	ОН	Br	NH-ethyl
acyl	Н	ОН	Br	NH-acetyl
acyl	Н	OH	Br	OH
acyl	Н	ОН	Br	OMe
acyl	Н	ОН	Br	OEt
acyl	Н	OH	Br	O-cyclopropyl
acyl	H	OH	Br	O-acetyl
acyl	H	OH	Br	SH
acyl	H	OH	Br	SMe
acyl	H	OH	Br	SEt
acyl	H	OH	Br	S-cyclopropyl
		1011	Di	1 3-cyclopropyr

R ²	R ³	X^1	$\overline{X^2}$	Y
acyl	H	OH	Br	F
acyl	H	OH	Br	Cl
acyl	Н	OH	Br	Br
acyl	H	OH	Br	I
acyl	acyl	OH	Br	Н
acyl	acyl	OH	Br	NH ₂
acyl	acyl	OH	Br	NH-cyclopropyl
acyl	acyl	OH	Br	NH-methyl
acyl	acyl	OH	Br	NH-ethyl
acyl	acyl	OH	Br	NH-acetyl
acyl	acyl	OH	Br	OH
acyl	acyl	OH	Br	OMe
acyl	acyl	ОН	Br	OEt
acyl	acyl	ОН	Br	O-cyclopropyl
acyl	acyl	OH	Br	O-acetyl
acyl	acyl	OH	Br	SH
acyl	acyl	ОН	Br	SMe
acyl	acyl	ОН	Br	SEt
acyl	acyl	OH	Br	S-cyclopropyl
acyl	acyl	ОН	Br	F
acyl	acyl	OH	Br	Cl
acyl	acyl	OH	Br	Br
acyl	acyl	OH	Br	I
acyl	amino acid	OH	Br	Н
acyl	amino acid	ОН	Br	NH ₂
acyl	amino acid	OH	Br	NH-cyclopropyl
acyl	amino acid	ОН	Br	NH-methyl
acyl	amino acid	OH	Br	NH-ethyl
acyl	amino acid	OH	Br	NH-acetyl
acyl	amino acid	OH	Br	OH
acyl	amino acid	OH	Br	OMe
acyl	amino acid	OH	Br	OEt
acyl	amino acid	OH	Br	O-cyclopropyl
acyl	amino acid	OH	Br	O-acetyl
acyl	amino acid	OH	Br	SH
acyl	amino acid	OH	Br	SMe
acyl	amino acid	OH	Br	SEt
acyl	amino acid	OH	Br	S-cyclopropyl
acyl	amino acid	OH	Br	F
acyl	amino acid	OH	Br	Cl
acyl	amino acid	OH	Br	Br
acyl	amino acid	ОН	Br	I
H	acyl	OH	Br	Н
Н	acyl	ОН	Br	NH ₂
H	acyl	OH	Br	NH-cyclopropyl
Н	acyl	OH	Br	NH-methyl
H	acyl	OH	Br	NH-ethyl

\mathbb{R}^2	\mathbb{R}^3	X^1	X ²	Y
Н	acyl	ОН	Br	NH-acetyl
H	acyl	ОН	Br	ОН
Н	acyl	ОН	Br	OMe
H	acyl	OH	Br	OEt
H	acyl	ОН	Br	O-cyclopropyl
H	acyl	OH	Br	O-acetyl
H	acyl	OH	Br	SH
H	acyl	OH	Br	SMe
H	acyl	OH	Br	SEt
H	acyl	OH	Br	S-cyclopropyl
H	acyl	OH	Br	F S-cyclopropyr
H	acyl	OH	Br	Cl
H	acyl	OH	Br	Br
H	acyl	OH	Br	I
H	amino acid	OH	Br	H
H	amino acid	OH	Br	NH ₂
H	amino acid	OH	Br	NH-cyclopropyl
H	amino acid	OH	Br	NH-methyl
H	amino acid	OH	Br	NH-ethyl
H	amino acid	OH	Br	NH-acetyl
H	amino acid	OH	Br	OH OH
H	amino acid	OH	Br	OMe
H	amino acid	OH	Br	OEt
H	amino acid	OH	Br	O-cyclopropyl
H	amino acid	OH	Br	O-acetyl
H	amino acid	OH	Br	SH
H	amino acid	OH	Br	SMe
H	amino acid	OH	Br	SEt
H	amino acid	OH	Br	S-cyclopropyl
H	amino acid	OH	Br	F
H	amino acid	OH	Br	Cl
H	amino acid	OH	Br	Br
H	amino acid	OH	Br	I
amino acid	amino acid	OH	Br	H
amino acid	amino acid	OH	Br	NH ₂
amino acid	amino acid	OH	Br	NH-cyclopropyl
amino acid	amino acid	OH	Br	NH-methyl
amino acid	amino acid	OH	Br	NH-ethyl
amino acid	amino acid	OH	Br	NH-acetyl
amino acid	amino acid	OH	Br	OH
amino acid	amino acid	OH	Br	OMe
amino acid	amino acid	OH	Br	OEt
amino acid	amino acid	OH	Br	O-cyclopropyl
amino acid	amino acid	OH	Br	O-acetyl
amino acid	amino acid	OH	Br	SH
amino acid	amino acid	OH	Br	SMe
amino acid				
ammo aciu	amino acid	ОН	Br	SEt

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	amino acid	ОН	Br	S-cyclopropyl
amino acid	amino acid	ОН	Br	F
amino acid	amino acid	ОН	Br	Cl
amino acid	amino acid	ОН	Br	Br
amino acid	amino acid	OH	Br	I
amino acid	H	OH	Br	H
amino acid	Н	ОН	Br	NH ₂
amino acid	H	ОН	Br	NH-cyclopropyl
amino acid	H	ОН	Br	NH-methyl
amino acid	Н	ОН	Br	NH-ethyl
amino acid	H	ОН	Br	NH-acetyl
amino acid	H ,	OH	Br	ОН
amino acid	Н	OH	Br	OMe
amino acid	H	OH	Br	OEt
amino acid	H	OH	Br	O-cyclopropyl
amino acid	Н	OH	Br	O-acetyl
amino acid	Н	OH	Br	SH
amino acid	H	OH	Br	SMe
amino acid	H	OH	Br	SEt
amino acid	H	OH	Br	S-cyclopropyl
amino acid	H	OH	Br	F
amino acid	Н	OH	Br	Cl
amino acid	Н	OH	Br	Br
amino acid	Н	OH	Br	I
amino acid	acyl	OH	Br	H
amino acid	acyl	OH	Br	NH ₂
amino acid	acyl	ОН	Br	NH-cyclopropyl
amino acid	acyl	OH	Br	NH-methyl
amino acid	acyl	OH	Br	NH-ethyl
amino acid	acyl	ОН	Br	NH-acetyl
amino acid	acyl	ОН	Br	ОН
amino acid	acyl	ОН	Br	OMe
amino acid	acyl	ОН	Br	OEt
amino acid	acyl	ОН	Br	O-cyclopropyl
amino acid	acyl	OH	Br	O-acetyl
amino acid	acyl	ОН	Br	SH
amino acid	acyl	ОН	Br	SMe
amino acid	acyl	OH	Br	SEt
amino acid	acyl	OH	Br	S-cyclopropyl
amino acid	acyl	OH	Br	F
amino acid	acyl	OH	Br	Cl
amino acid	acyl	OH	Br	Br
amino acid	acyl	OH	Br	I
acyl	H	CH ₃	Cl	H
acyl	H	CH ₃	Cl	NH ₂
acyl	H	CH ₃	Cl	
acyl	H	CH ₃	Cl	NH-cyclopropyl
ucy1	1 11	CH3	I CI	NH-methyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	H	CH ₃	CI	NH-ethyl
acyl	H	CH ₃	CI	NH-acetyl
acyl	H	CH ₃	CI	ОН
acyl	Н	CH ₃	Cl	OMe
acyl	Н	CH ₃	Cl	OEt
acyl	Н	CH ₃	Cl	O-cyclopropyl
acyl	Н	CH ₃	Cl	O-acetyl
acyl	H	CH ₃	Cl	SH
acyl	Н	CH ₃	Cl	SMe
acyl	Н	CH ₃	Cl	SEt
acyl	H	CH ₃	Cl	S-cyclopropyl
acyl	H	CH ₃	Cl	F
acyl	Н	CH ₃	Cl	Cl
acyl	Н	CH ₃	Cl	Br
acyl	Н	CH ₃	Cl	I
acyl	acyl	CH ₃	Cl	Н
acyl	acyl	CH ₃	Cl	NH ₂
acyl	acyl	CH ₃	Cl	NH-cyclopropyl
acyl	acyl	CH ₃	Cl	NH-methyl
acyl	acyl	CH ₃	Cl	NH-ethyl
acyl	acyl	CH ₃	Cl	NH-acetyl
acyl	acyl	CH ₃	Cl	OH
acyl	acyl	CH ₃	Cl	OMe
acyl	acyl	CH ₃	Cl	OEt
acyl	acyl	CH ₃	Cl	O-cyclopropyl
acyl	acyl	CH ₃	Cl	O-acetyl
acyl	acyl	CH ₃	Cl	SH
acyl	acyl	CH ₃	Cl	SMe
acyl	acyl	CH ₃	Cl	SEt
acyl	acyl	CH ₃	Cl	S-cyclopropyl
acyl	acyl	CH ₃	Cl	F
acyl	acyl	CH ₃	Cl	CI
acyl	acyl	CH ₃	Cl	Br
acyl	acyl	CH ₃	Cl	I
acyl	amino acid	CH ₃	Cl	H
acyl	amino acid	CH ₃	Cl	NH ₂
acyl	amino acid	CH ₃	Cl	NH-cyclopropyl
acyl	amino acid	CH ₃	Cl	NH-methyl
acyl	amino acid	CH ₃	Cl	NH-ethyl
acyl	amino acid	CH ₃	Cl	NH-acetyl
acyl	amino acid	CH ₃	Cl	OH
acyl	amino acid	CH ₃	Cl	OMe
acyl	amino acid	CH ₃	Cl	OEt
acyl	amino acid	CH ₃	Cl	O-cyclopropyl
acyl	amino acid	CH ₃	Cl	O-acetyl
acyl	amino acid	CH ₃	Cl	SH
acyl	amino acid	CH ₃	Cl	SMe

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
acyl	amino acid	CH ₃	Cl	SEt
acyl	amino acid	CH ₃	Cl	S-cyclopropyl
acyl	amino acid	CH ₃	Cl	F
acyl	amino acid	CH ₃	CI	Cl
acyl	amino acid	CH ₃	Cl	Br
acyl	amino acid	CH ₃	Cl	I
Н	acyl	CH ₃	Cl	Н
H	acyl	CH ₃	Cl	NH ₂
H	acyl	CH ₃	Cl	NH-cyclopropyl
H	acyl	CH ₃	Cl	NH-methyl
H	acyl	CH ₃	Cl	NH-ethyl
H	acyl	CH ₃	Cl	NH-acetyl
H	acyl	CH ₃	Cl	OH
H	acyl	CH ₃	Cl	OMe
H	acyl	CH ₃	Cl	OEt
H	acyl	CH ₃	Cl	O-cyclopropyl
H	acyl	CH ₃	Cl	O-acetyl
H	acyl	CH ₃	Cl	SH
H	acyl	CH ₃	Cl	SMe
H	acyl	CH ₃	Cl	SEt
H	acyl	CH ₃	Cl .	S-cyclopropyl
H	acyl	CH ₃	Cl	F
H	acyl	CH ₃	Cl	Cl
H	acyl	CH ₃	Cl	Br
H	acyl	CH ₃	Cl	I
H	amino acid	CH ₃	Cl	Н
H	amino acid	CH ₃	Cl	NH ₂
H	amino acid	CH ₃	Cl	NH-cyclopropyl
H	amino acid	CH ₃	Cl	NH-methyl
H	amino acid	CH ₃	Cl	NH-ethyl
H	amino acid	CH ₃	Cl	NH-acetyl
H	amino acid	CH ₃	Cl	ОН
H	amino acid	CH ₃	Cl	OMe
H	amino acid	CH ₃	Cl	OEt
H	amino acid	CH₃	Cl	O-cyclopropyl
H	amino acid	CH ₃	Cl	O-acetyl
H	amino acid	CH₃	Cl	SH
H	amino acid	CH₃	Cl	SMe
H	amino acid	CH ₃	Cl	SEt
H	amino acid	CH ₃	Cl	S-cyclopropyl
H	amino acid	CH ₃	Cl	F
H	amino acid	CH ₃	Cl	Cl
H	amino acid	CH ₃	Cl	Br
H	amino acid	CH ₃	Cl	I
amino acid	amino acid	CH ₃	Cl	H
amino acid	amino acid	CH ₃	Cl	NH ₂
amino acid	amino acid	CH ₃	Cl	NH-cyclopropyl

amino acid		\mathbf{X}^{1}	\mathbf{X}^2	Y
aminio acia	amino acid	CH ₃	Cl	NH-methyl
amino acid	amino acid	CH ₃	Cl	NH-ethyl
amino acid	amino acid	CH ₃	CI	NH-acetyl
amino acid	amino acid	CH ₃	Cl	OH
amino acid	amino acid	CH ₃	Cl	OMe
amino acid	amino acid	CH ₃	Cl	OEt
amino acid	amino acid	CH ₃	Cl	O-cyclopropyl
amino acid	amino acid	CH ₃	Cl	O-acetyl
amino acid	amino acid	CH ₃	Cl	SH
amino acid	amino acid	CH ₃	Cl	SMe
amino acid	amino acid	CH ₃	Cl	SEt
amino acid	amino acid	CH ₃	Cl	
amino acid	amino acid	CH ₃	Cl	S-cyclopropyl F
amino acid	amino acid	CH ₃	Cl	Cl
amino acid	amino acid	CH ₃	Cl	Br
amino acid	amino acid	CH ₃	Cl	I
amino acid	H	CH ₃	Cl	
amino acid	H	CH ₃	Cl	Н
amino acid	H		Cl	NH ₂
amino acid	Н	CH ₃	Cl	NH-cyclopropyl
amino acid	H	CH ₃		NH-methyl
amino acid	H	CH ₃	Cl	NH-ethyl
amino acid	H	CH ₃	Cl	NH-acetyl
}	H	CH ₃	Cl	OH
amino acid		CH ₃	Cl	OMe
amino acid	H	CH ₃	Cl	OEt
amino acid	H	CH ₃	Cl	O-cyclopropyl
amino acid	H	CH ₃	Cl	O-acetyl
amino acid	H	CH ₃	Cl	SH
amino acid	H	CH ₃	Cl	SMe
amino acid	H	CH ₃	Cl	SEt
amino acid	H	CH ₃	Cl	S-cyclopropyl
amino acid	Н	CH ₃	CI	F
amino acid	H	CH ₃	Cl	CI
amino acid	H	CH ₃	Cl	Br
amino acid	H	CH ₃	Cl	I
amino acid	acyl	CH ₃	Cl	H
amino acid	acyl	CH ₃	Cl	NH ₂
amino acid	acyl	CH ₃	Cl	NH-cyclopropyl
amino acid	acyl	CH ₃	Cl	NH-methyl
amino acid	acyl	CH ₃	Cl	NH-ethyl
amino acid	acyl	CH ₃	Cl	NH-acetyl
amino acid	acyl	CH ₃	Cl	OH
amino acid	acyl	CH ₃	Cl	OMe
amino acid	acyl	CH ₃	Cl	OEt
amino acid	acyl	CH ₃	Cl	O-cyclopropyl
amino soid	acyl	CH ₃	Cl	O-acetyl
amino acid				

R ²	R ³	X ¹	X ²	Y
amino acid	acyl	CH ₃	Cl	SMe
amino acid	acyl	CH ₃	Cl	SEt
amino acid	acyl	CH ₃	Cl	S-cyclopropyl
amino acid	acyl	CH ₃	Cl	F
amino acid	acyl	CH ₃	Cl	Cl
amino acid	acyl	CH ₃	Cl	Br
amino acid	acyl	CH ₃	Cl	I
acyl	H	CF ₃	Cl	H
acyl	Н	CF ₃	Cl	NH ₂
acyl	Н	CF ₃	Cl	NH-cyclopropyl
acyl	Н	CF ₃	Cl	NH-methyl
acyl	Н	CF ₃	Cl	NH-ethyl
acyl	Н	CF ₃	Cl	NH-acetyl
acyl	Н	CF ₃	Cl	OH
acyl	H	CF ₃	Cl	OMe
acyl	H	CF ₃	Cl	OEt
acyl	Н	CF ₃	Cl	O-cyclopropyl
acyl	Н	CF ₃	Cl	O-acetyl
acyl	Н	CF ₃	Cl	SH
acyl	Н	CF ₃	Cl	SMe
acyl	Н	CF ₃	Cl	SEt
acyl	H	CF ₃	Cl	S-cyclopropyl
acyl	Н	CF ₃	Cl	F
acyl	H	CF ₃	Cl	Cl
acyl	Н	CF ₃	Cl	Br
acyl	H	CF ₃	Cl	I
acyl	acyl	CF ₃	Cl	H
acyl	acyl	CF ₃	CI	NH ₂
acyl	acyl	CF ₃	Cl	NH-cyclopropyl
acyl	acyl	CF ₃	Cl	NH-methyl
acyl	acyl	CF ₃	Cl	NH-ethyl
acyl	acyl	CF ₃	Cl	NH-acetyl
acyl	acyl	CF ₃	Cl	OH
acyl	acyl	CF ₃	Cl	OMe
acyl	acyl	CF ₃	Cl	OEt
acyl	acyl	CF ₃	Cl	O-cyclopropyl
acyl	acyl	CF ₃	Cl	O-acetyl
acyl	acyl	CF ₃	Cl	SH
acyl	acyl	CF ₃	Cl	SMe
acyl	acyl	CF ₃	CI	SEt
acyl	acyl	CF ₃	Cl	S-cyclopropyl
acyl	acyl	CF ₃	Cl	F S-cyclopropyr
acyl	acyl	CF ₃	Cl	Cl
acyl	acyl	CF ₃	Cl	Br
acyl	acyl	CF ₃	Cl	I
acyl	amino acid	$\frac{\text{CF}_3}{\text{CF}_3}$	Cl	H
				
acyl	amino acid	CF ₃	Cl	NH ₂

R ²	\mathbb{R}^3	X ¹	X ²	Y
acyl	amino acid	CF ₃	Cl	NH-cyclopropyl
acyl	amino acid	CF ₃	Cl	NH-methyl
acyl	amino acid	CF ₃	Cl	NH-ethyl
acyl	amino acid	CF ₃	Cl	NH-acetyl
acyl	amino acid	CF ₃	Cl	OH
acyl	amino acid	CF ₃	Cl	OMe
acyl	amino acid	CF ₃	Cl	OEt
acyl	amino acid	CF ₃	Cl	O-cyclopropyl
acyl	amino acid	CF ₃	Cl	O-acetyl
acyl	amino acid	CF ₃	Cl	SH
acyl	amino acid	CF ₃	Cl	SMe
acyl	amino acid	CF ₃	Cl	SEt
acyl	amino acid	CF ₃	Cl	S-cyclopropyl
acyl	amino acid	CF ₃	Cl	F
acyl	amino acid	CF ₃	Cl	Cl
acyl	amino acid	CF ₃	Cl	Br
acyl	amino acid	CF ₃	Cl	I
H	acyl	CF ₃	Cl	H
Н	acyl	CF ₃	Cl	NH ₂
Н	acyl	CF ₃	Cl	NH-cyclopropyl
H	acyl	CF ₃	Cl	NH-methyl
Н	acyl	CF ₃	Cl	NH-ethyl
Н	acyl	CF ₃	Cl	NH-acetyl
Н	acyl	CF ₃	Cl	OH
Н	acyl	CF ₃	Cl	OMe
H	acyl	CF ₃	Cl	OEt
H	acyl	CF ₃	Cl	O-cyclopropyl
H	acyl	CF ₃	Cl	O-acetyl
H	acyl	CF ₃	Cl	SH
H	acyl	CF ₃	Cl	SMe
<u>H</u>	acyl	CF ₃	Cl	SEt
H	acyl	CF ₃	Cl	S-cyclopropyl
H	acyl	CF ₃	Cl	F
H	acyl	CF ₃	Cl	Cl
H	acyl	CF ₃	Cl	Br
H	acyl	CF ₃	Cl	I
H	amino acid	CF ₃	Cl	H
H	amino acid	CF ₃	Cl	NH ₂
H	amino acid	CF ₃	Cl	NH-cyclopropyl
H	amino acid	CF ₃	Cl	NH-methyl
H	amino acid	CF ₃	CI	NH-ethyl
H	amino acid	CF ₃	Cl	NH-acetyl
H	amino acid	CF ₃	Cl	OH
H	amino acid	CF ₃	Cl	OMe
Н	amino acid	CF ₃	Cl	OEt
Н	amino acid	CF ₃	Cl	O-cyclopropyl
H	amino acid	CF ₃	CI	O-acetyl

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
H	amino acid	CF ₃	Cl	SH
H	amino acid	CF ₃	Ci	SMe
H	amino acid	CF ₃	Cl	SEt
H	amino acid	CF ₃	Cl	S-cyclopropyl
H	amino acid	CF ₃	Cl	F
H	amino acid	CF ₃	Cl	Cl
H	amino acid	CF ₃	Cl	Br
H	amino acid	CF ₃	Cl	I
amino acid	amino acid	CF ₃	CI	Н
amino acid	amino acid	CF ₃	Cl	NH ₂
amino acid	amino acid	CF ₃	Cl	NH-cyclopropyl
amino acid	amino acid	CF ₃	C1	NH-methyl
amino acid	amino acid	CF ₃	Cl	NH-ethyl
amino acid	amino acid	CF ₃	Cl	NH-acetyl
amino acid	amino acid	CF ₃	Cl	OH
amino acid	amino acid	CF ₃	Cl	OMe
amino acid	amino acid	CF ₃	Cl	OEt
amino acid	amino acid	CF ₃	Cl	O-cyclopropyl
amino acid	amino acid	CF ₃	Cl	O-acetyl
amino acid	amino acid	CF ₃	Cl	SH
amino acid	amino acid	CF ₃	Cl	SMe
amino acid	amino acid	CF ₃	Cl	SEt
amino acid	amino acid	CF ₃	Cl	S-cyclopropyl
amino acid	amino acid	CF ₃	Cl	F
amino acid	amino acid	CF ₃	Cl	Cl
amino acid	amino acid	CF ₃	Cl	Br
amino acid	amino acid	CF ₃	Cl	I
amino acid	Н	CF ₃	Cl	H
amino acid	H	CF ₃	Cl	NH ₂
amino acid	H	CF ₃	C1	NH-cyclopropyl
amino acid	H	CF ₃	CI	NH-methyl
amino acid	H	CF ₃	Cl	NH-ethyl
amino acid	H	CF ₃	Cl	NH-acetyl
amino acid	H	CF ₃	Cl	ОН
amino acid	H	CF ₃	Cl	OMe
amino acid	H	CF ₃	Cl	OEt
amino acid	Н	CF ₃	Cl	O-cyclopropyl
amino acid	H	CF ₃	Cl	O-acetyl
amino acid	H	CF ₃	Cl	SH
amino acid	H	CF ₃	Cl	SMe
amino acid	H	CF ₃	Cl	SEt
amino acid	H	CF ₃	Cl	S-cyclopropyl
amino acid	H	CF ₃	Cl	F
amino acid	H	CF ₃	CI	Cl
amino acid	H	CF ₃	Cl	Br
amino acid	H	CF ₃	Cl	I
amino acid	acyl	CF ₃	Cl	H

\mathbb{R}^2	\mathbb{R}^3	X^1	X ²	Y
amino acid	acyl	CF ₃	CI	NH ₂
amino acid	acyl	CF ₃	Cl	NH-cyclopropyl
amino acid	acyl	CF ₃	Cl	NH-methyl
amino acid	acyl	CF ₃	Cl	NH-ethyl
amino acid	acyl	CF ₃	Cl	NH-acetyl
amino acid	acyl	CF ₃	Cl	ОН
amino acid	acyl	CF ₃	Cl	OMe
amino acid	acyl	CF ₃	Cl	OEt
amino acid	acyl	CF ₃	Cl	O-cyclopropyl
amino acid	acyl	CF ₃	Cl	O-acetyl
amino acid	acyl	CF ₃	Cl	SH
amino acid	acyl	CF ₃	Cl	SMe
amino acid	acyl	CF ₃	Cl	SEt
amino acid	acyl	CF ₃	Cl	S-cyclopropyl
amino acid	acyl	CF ₃	Cl	F
amino acid	acyl	CF ₃	Ci	Cl
amino acid	acyl	CF ₃	Cl	Br
amino acid	acyl	CF ₃	Cl.	I
acyl	H	Br	Cl	H
acyl	H	Br	Cl	NH ₂
acyl	Н	Br	Cl	NH-cyclopropyl
acyl	Н	Br	Cl	NH-methyl
acyl	H	Br	Cl	NH-ethyl
acyl	H	Br	Cl	NH-acetyl
acyl	H	Br	Cl	OH
acyl	H	Br	Cl	OMe
acyl	H	Br	Cl	OEt
acyl	Н	Br	Cl	O-cyclopropyl
acyl	Н	Br	Cl	O-acetyl
acyl	Н	Br	Cl	SH
acyl	Н	Br	Cl	SMe
acyl	H	Br	CI	SEt
acyl	H	Br	Cl	S-cyclopropyl
acyl	H	Br	Cl	F
acyl	H	Br	Cl	Cl
acyl	H	Br	Cl	Br
acyl	H	Br	Cl	I
acyl	acyl	Br	Cl	H
acyl	acyl	Br	Cl	NH ₂
acyl	acyl	Br	Cl	NH-cyclopropyl
acyl	acyl	Br	Cl	NH-methyl
acyl	acyl	Br	Cl	NH-ethyl
acyl	acyl	Br	Cl	NH-acetyl
acyl	acyl	Br	Cl	ОН
acyl	acyl	Br	Cl	OMe
acyl	acyl	Br	CI	OEt
~~J.	acyi	$(D_{I}$	101	OLL

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	acyl	Br	C1	O-acetyl
acyl	acyl	Br	Cl	SH
acyl	acyl	Br	Cl	SMe
acyl	acyl	Br	Cl	SEt
acyl	acyl	Br	Cl	S-cyclopropyl
acyl	acyl	Br	Cl	F
acyl	acyl	Br	Cl	Cl
acyl	acyl	Br	Cl	Br
acyl	acyl	Br	C1	I
acyl	amino acid	Br	Cl	Н
acyl	amino acid	Br	Cl	NH ₂
acyl	amino acid	Br	Cl	NH-cyclopropyl
acyl	amino acid	Br	Cl	NH-methyl
acyl	amino acid	Br	Cl	NH-ethyl
acyl	amino acid	Br	Cl	NH-acetyl
acyl	amino acid	Br	Cl	OH
acyl	amino acid	Br	Cl	OMe
acyl	amino acid	Br	Cl	OEt
acyl	amino acid	Br	Cl	O-cyclopropyl
acyl	amino acid	Br	Cl	O-acetyl
acyl	amino acid	Br	Cl	SH
acyl	amino acid	Br	Cl	SMe
acyl	amino acid	Br	Cl	SEt
acyl	amino acid	Br	Cl	S-cyclopropyl
acyl	amino acid	Br	Cl	F
acyl	amino acid	Br	Cl	Cl
acyl	amino acid	Br	Cl	Br
acyl	amino acid	Br	Cl	I
Н	acyl	Br	Cl	H
H	acyl	Br	Cl	NH ₂
H	acyl	Br	Cl	NH-cyclopropyl
H	acyl	Br	C1	NH-methyl
H	acyl	Br	Cl	NH-ethyl
H	acyl	Br	C1	NH-acetyl
Ĥ	acyl	Br	Cl	ОН
H	acyl	Br	Cl	OMe
H	acyl	Br	Cl	OEt
H	acyl	Br	Cl	O-cyclopropyl
H	acyl	Br	Cl	O-acetyl
H	acyl	Br	Cl	SH
H	acyl	Br	Cl	SMe
H	acyl	Br	Cl	SEt
H	acyl	Br	Cl	S-cyclopropyl
H	acyl	Br	Cl	F
H	acyl	Br	Cl	Cl
H	acyl	Br	Cl	Br
Н	acyl	Br	Cl	I

R ²	\mathbb{R}^3	X ¹	$\overline{X^2}$	Y
H	amino acid	Br	Cl	Н
H	amino acid	Br	Cl	NH ₂
Н	amino acid	Br	Cl	NH-cyclopropyl
H	amino acid	Br	Cl	NH-methyl
Н	amino acid	Br	Cl	NH-ethyl
H	amino acid	Br	Cl	NH-acetyl
H	amino acid	Br	Cl	OH
H	amino acid	Br	Cl	OMe
H	amino acid	Br	Cl	OEt
H	amino acid	Br	Cl	O-cyclopropyl
H	amino acid	Br	Cl	O-acetyl
H	amino acid	Br	Cl	SH
H	amino acid	Br	Cl	SMe
H	amino acid	Br	Cl	SEt
H	amino acid	Br	Cl	S-cyclopropyl
Н	amino acid	Br	Cl	F
H	amino acid	Br	Cl	Cl
Н	amino acid	Br	Cl	Br
Н	amino acid	Br	Cl	I
amino acid	amino acid	Br	Cl	Н
amino acid	amino acid	Br	Cl	NH ₂
amino acid	amino acid	Br	Cl	NH-cyclopropyl
amino acid	amino acid	Br	Cl	NH-methyl
amino acid	amino acid	Br	Cl	NH-ethyl
amino acid	amino acid	Br_	Cl	NH-acetyl
amino acid	amino acid	Br	Cl	OH
amino acid	amino acid	Br	Cl	OMe
amino acid	amino acid	Br	CI	OEt
amino acid	amino acid	Br	Cl	O-cyclopropyl
amino acid	amino acid	Br	C1	O-acetyl
amino acid	amino acid	Br	Cl	SH
amino acid	amino acid	Br	Cl	SMe
amino acid	amino acid	Br	Cl	SEt
amino acid	amino acid	Br	Cl	S-cyclopropyl
amino acid	amino acid	Br	Cl	F
amino acid	amino acid	Br	Cl	Cl
amino acid	amino acid	Br	Cl	Br
amino acid	amino acid	Br	Cl	I
amino acid	H	Br	Cl	H
amino acid	H	Br	Cl	NH ₂
amino acid	H	Br	Cl	NH-cyclopropyl
amino acid	H	Br	Cl	NH-methyl
amino acid	H	Br	Cl	NH-ethyl
amino acid	H	Br	Cl	NH-acetyl
amino acid	H	Br	Cl	ОН
amino acid	Н	Br	Cl	OMe
amino acid	H	Br	Cl	OEt

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
amino acid	Н	Br	Cl	O-cyclopropyl
amino acid	H	Br	Cl	O-acetyl
amino acid	H	Br	Cl	SH
amino acid	H	Br	Cl	SMe
amino acid	H	Br	Cl	SEt
amino acid	Н	Br	CI	S-cyclopropyl
amino acid	Н	Br	Cl	F
amino acid	H	Br	Cl	Cl
amino acid	H	Br	Cl	Br
amino acid	Н	Br	Cl	I
amino acid	acyl	Br	Cl	H
amino acid	acyl	Br	Cl	NH ₂
amino acid	acyl	Br	Cl	NH-cyclopropyl
amino acid	acyl	Br	Cl	NH-methyl
amino acid	acyl	Br	Cl	NH-ethyl
amino acid	acyl	Br	Cl	NH-acetyl
amino acid	acyl	Br	Cl	OH
amino acid	acyl	Br	Cl	OMe
amino acid	acyl	Br	Cl	OEt
amino acid	acyl	Br	Cl	O-cyclopropyl
amino acid	acyl	Br	Cl	O-acetyl
amino acid	acyl	Br	Cl	SH SH
amino acid	acyl	Br	Cl	SMe
amino acid	acyl	Br	Cl	SEt
amino acid	acyl	Br	Cl	S-cyclopropyl
amino acid	acyl	Br	Cl	5-сусторгоруг Г
amino acid	acyl	Br	Cl	Cl
amino acid	acyl	Br	Cl	Br
amino acid	acyl	Br	Cl	I
acyl	H	Cl	Cl	H
acyl	H	Cl	Cl	NH ₂
acyl	H	Cl	Cl	
acyl	H	Cl	Cl	NH-cyclopropyl
acyl	H	Cl	Cl	NH-methyl NH-ethyl
acyl	H	Cl	Cl	NH-acetyl
acyl	H	Cl		
acyl	H	Cl	Cl Cl	OH OMe
				
acyl	H	Cl	Cl	OEt
acyl	H		Cl	O-cyclopropyl
acyl		Cl	Cl	O-acetyl
acyl	H	Cl	CI	SH
acyl	H	Cl	Cl	SMe
acyl	H	Cl	Cl	SEt
acyl	H	Cl	Cl	S-cyclopropyl
acyl	H	Cl	Cl	F
acyl	H	Cl	Cl	Cl
acyl	H	Cl	Cl	Br

R ²	R ³	X ¹	X ²	Y
acyl	Н	Cl	Cl	I
acyl	acyl	Cl	Cl	Н
acyl	acyl	Cl	Cl	NH ₂
acyl	acyl	Cl	Cl	NH-cyclopropyl
acyl	acyl	Cl	Cl	NH-methyl
acyl	acyl	Cl	Cl	NH-ethyl
acyl	acyl	Cl	Cl	NH-acetyl
acyl	acyl	Cl	Cl	ОН
acyl	acyl	Cl	Cl	OMe
acyl	acyl	Cl	Cl	OEt
acyl	acyl	Cl	Cl	O-cyclopropyl
acyl	acyl	Cl	Cl	O-acetyl
acyl	acyl	Cl	Cl	SH
acyl	acyl	Cl	Cl	SMe
acyl	acyl	Cl	Cl	SEt
acyl	acyl	Cl	Cl	S-cyclopropyl
acyl	acyl	Cl	Cl	F
acyl	acyl	Cl	Cl	Cl
acyl	acyl	Cl	Cl	Br
acyl	acyl	Cl	Cl	I
acyl	amino acid	Cl	Cl	Н
acyl	amino acid	Cl	Cl	NH ₂
acyl	amino acid	Cl	Cl	NH-cyclopropyl
acyl	amino acid	Cl	Cl	NH-methyl
acyl	amino acid	Cl	Cl	NH-ethyl
acyl	amino acid	Cl	Cl	NH-acetyl
acyl	amino acid	Cl	Cl	OH
acyl	amino acid	Cl	Cl	OMe
acyl	amino acid	Cl	Cl	OEt
acyl	amino acid	Cl	Cl	O-cyclopropyl
acyl	amino acid	Cl	Cl	O-acetyl
acyl	amino acid	Cl	Cl	SH
acyl	amino acid	Cl	Cl	SMe
acyl	amino acid	Cl	Cl	SEt
acyl	amino acid	Cl	Cl	S-cyclopropyl
acyl	amino acid	Cl	Cl	F
acyl	amino acid	Cl	Cl	Cl
acyl	amino acid	Cl	Cl	Br
acyl	amino acid	Cl	Cl	I
H	acyl	Cl	Cl	Н
H	acyl	Cl	Cl	NH ₂
H	acyl	Cl	Cl	NH-cyclopropyl
H	acyl	Cl	Cl	NH-methyl
H	acyl	Cl	Cl	NH-ethyl
H	acyl	Cl	Cl	NH-acetyl
Н	acyl	Cl	Cl	ОН
Η	acyl	Cl	Cl	OMe

R ²	R ³	X ¹	X ²	Y
H	acyl	Cl	Cl	OEt
H	acyl	Cl	Cl	O-cyclopropyl
H	acyl	Cl	Cl	O-acetyl
H	acyl	Cl	CI	SH
H	acyl	Cl	Cl	SMe
H	acyl	Cl	Cl	SEt
H	acyl	Cl	Cl	S-cyclopropyl
H	acyl	Cl	Cl	F
H	acyl	Cl	Cl	Cl
H	acyl	Cl	Cl	Br
H	acyl	Cl	Cl	I
Н	amino acid	Cl	Cl	H
H	amino acid	Cl	Cl	NH ₂
H	amino acid	Cl	Cl	NH-cyclopropyl
H	amino acid	Cl	Cl	NH-methyl
H	amino acid	Cl	Cl	NH-ethyl
H	amino acid	Cl	Cl	NH-acetyl
H	amino acid	Cl	Cl	OH
H	amino acid	Cl	Cl	OMe
H	amino acid	Ci	CI	OEt
H	amino acid	Cl	Cl	O-cyclopropyl
H	amino acid	Cl	Cl	O-acetyl
H	amino acid	Cl	Cl	SH
H	amino acid	Cl	Cl	SMe
Н	amino acid	Cl	Cl	SEt
H	amino acid	Cl	Cl	S-cyclopropyl
Н	amino acid	Cl	Cl	F
H	amino acid	CI	Cl	Cl
H	amino acid	Cl	Cl	Br
H	amino acid	Cl	Cl	I
amino acid	amino acid	Cl	Cl	H
amino acid	amino acid	Cl	Cl	NH ₂
amino acid	amino acid	Cl	Cl	NH-cyclopropyl
amino acid	amino acid	C1	Cl	NH-methyl
amino acid	amino acid	Cl	Cl	NH-ethyl
amino acid	amino acid	Cl	Cl	NH-acetyl
amino acid	amino acid	Cl	Cl	OH
amino acid	amino acid	Cl	Cl	OMe
amino acid	amino acid	C1	Cl	OEt
amino acid	amino acid	Cl	Cl	O-cyclopropyl
amino acid	amino acid	Cl	Cl	O-acetyl
amino acid	amino acid	Cl	Cl	SH
amino acid	amino acid	Cl	Cl	SMe
amino acid	amino acid	Cl	Cl	SEt
amino acid	amino acid	Cl	Cl	S-cyclopropyl
amino acid	amino acid	Cl	Cl	F
amino acid	amino acid	Cl	Cl	Cl

\mathbb{R}^2	\mathbb{R}^3	X¹	X ²	Y
amino acid	amino acid	Cl	Cl	Br
amino acid	amino acid	Cl	Cl	I
amino acid	H	Cl	Cl	Н
amino acid	H	Cl	Cl	NH ₂
amino acid	H	Cl	Cl	NH-cyclopropyl
amino acid	H	Cl	Cl	NH-methyl
amino acid	Н	Cl	Cl	NH-ethyl
amino acid	Н	Cl	Cl	NH-acetyl
amino acid	Н	Cl	Cl	OH
amino acid	H	Cl	Cl	OMe
amino acid	H	Cl	Cl	OEt
amino acid	Н	Cl	Cl	O-cyclopropyl
amino acid	H	Cl	Cl	O-acetyl
amino acid	H	Cl	Cl	SH
amino acid	Н	Cl	CI	SMe
amino acid	H	CI	Ci	SEt
amino acid	H	Cl	Cl	S-cyclopropyl
amino acid	H	Cl	Cl	F
amino acid	H	Cl	CI	Cl
amino acid	H	Cl	Cl	Br
amino acid	Н	Cl	Cl	Ī
amino acid	acyl	Cl	Cl	H
amino acid	acyl	Cl	Cl	NH ₂
amino acid	acyl	Cl	Cl	NH-cyclopropyl
amino acid	acyl	Cl	Cl	NH-methyl
amino acid	acyl	Cl	Cl	NH-ethyl
amino acid	acyl	Cl	Cl	NH-acetyl
amino acid	acyl	Cl	Cl	OH
amino acid	acyl	Cl	Cl	OMe
amino acid	acyl	Cl	Cl	OEt
amino acid	acyl	Cl .	Cl	O-cyclopropyl
amino acid	acyl	Cl	Cl	O-acetyl
amino acid	acyl	Cl	Cl	SH
amino acid	acyl	Cl	Cl	SMe
amino acid	acyl	Cl	Cl	SEt
amino acid	acyl	Cl	Cl	S-cyclopropyl
amino acid	acyl	Cl	Cl	F
amino acid	acyl	CI	Cl	Cl
amino acid	acyl	CI	Cl	Br
amino acid	acyl	Cl	Cl	Ī
acyl	H	F	Cl	H
acyl	H	F	Cl	NH ₂
acyl	H	F	Cl	NH-cyclopropyl
acyl	H	F	Cl	NH-methyl
acyl	H	F	Cl	NH-ethyl
acyl	H	F	Cl	NH-acetyl
acyl	H	F	Cl	OH
4051	1.11	1 *		UII

R ²	R ³	X^1	X ²	Y
acyl	H	F	Cl	OMe
acyl	Н	F	Cl	OEt
acyl	Н	F	Cl	O-cyclopropyl
acyl	H	F	Cl	O-acetyl
acyl	H	F	Cl	SH
acyl	Н	F	CI	SMe
acyl	Н	F	Cl	SEt
acyl	H	F	Cl	S-cyclopropyl
acyl	Н	F	Cl	F
acyl	H	F	Cl	Cl
acyl	Н	F	Cl	Br
acyl	Н	F	Cl	I
acyl	acyl	F	Cl	H
acyl	acyl	F	Cl	NH ₂
acyl	acyl	F	Cl	NH-cyclopropyl
acyl	acyl	F	Cl	NH-methyl
acyl	acyl	F	Cl	NH-ethyl
acyl	acyl	F	Cl	NH-acetyl
acyl	acyl	F	CI	OH
acyl	acyl	F	Cl	OMe
acyl	acyl	F	Cl	OEt
acyl	acyl	F	Cl	O-cyclopropyl
acyl	acyl	F	Cl	O-acetyl
acyl	acyl	F	Cl	SH
acyl	acyl	F	Cl	SMe
acyl	acyl	F	Cl	SEt
acyl	acyl	F	Cl	S-cyclopropyl
acyl	acyl	F	Cl	F
acyl	acyl	F	Cl	Cl
acyl	acyl	F	Cl	Br
acyl	acyl	F	Cl	Ī
acyl	amino acid	F	Cl	H
acyl	amino acid	F	Cl	NH ₂
acyl	amino acid	F	Cl	NH-cyclopropyl
acyl	amino acid	F	Cl	NH-methyl
acyl	amino acid	F	Cl	NH-ethyl
acyl	amino acid	F	Cl	NH-acetyl
acyl	amino acid	F	Cl	OH
acyl	amino acid	F	Cl	OMe
acyl	amino acid	F	Cl	OEt
acyl	amino acid	F	CI	O-cyclopropyl
acyl	amino acid	F	Cl	O-acetyl
acyl	amino acid	F	Cl	SH
acyl	amino acid	F	Cl	SMe
acyl	amino acid	F	Cl	SEt
acyl	amino acid	F	Cl	S-cyclopropyl
acyl	amino acid	F	Cl	F
				<u> </u>

R ²	R ³	X^1	X ²	Y
acyl	amino acid	F	Cl	Cl
acyl	amino acid	F	Cl	Br
acyl	amino acid	F	Cl	I
Н	acyl	F	Cl	Н
Н	acyl	F	Cl	NH ₂
Н	acyl	F	Cl	NH-cyclopropyl
H	acyl	F	Cl	NH-methyl
Н	acyl	F	Cl	NH-ethyl
Н	acyl	F	Cl	NH-acetyl
H	acyl	F	Cl	OH
H	acyl	F	Cl	OMe
Н	acyl	F	Cl	OEt
Н	acyl	F	C1	O-cyclopropyl
H	acyl	F	Cl	O-acetyl
H	acyl	F	Cl	SH
Н	acyl	F	Cl	SMe
Н	acyl	F	Cl	SEt
H	acyl	F	Cl	S-cyclopropyl
H	acyl	F	Cl	F
Н	acyl	F	Cl	Cl
H	acyl	F	Cl	Br
H	acyl	F	Cl	I
H	amino acid	F	Cl	Н
H	amino acid	F	Cl	NH ₂
Н	amino acid	F	Cl	NH-cyclopropyl
H	amino acid	F	Cl	NH-methyl
H	amino acid	F	Cl	NH-ethyl
H	amino acid	F	Cl	NH-acetyl
H	amino acid	F	Cl	ОН
H	amino acid	F	Cl	OMe
H	amino acid	F	Cl	OEt
H	amino acid	F	Cl	O-cyclopropyl
H	amino acid	F	Cl	O-acetyl
H	amino acid	F	Cl	SH
H_	amino acid	F	Cl	SMe
H	amino acid	F	Cl	SEt
H	amino acid	F	Cl	S-cyclopropyl
H	amino acid	F	Cl	F
H	amino acid	F	Cl	CI
H	amino acid	F	Cl	Br
H	amino acid	F	Cl	I
amino acid	amino acid	F	Cl	Н
amino acid	amino acid	F	C1	NH ₂
amino acid	amino acid	F	Cl	NH-cyclopropyl
amino acid	amino acid	F	Cl	NH-methyl
amino acid	amino acid	F	Cl	NH-ethyl
amino acid	amino acid	F	Cl	NH-acetyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	amino acid	F	Cl	OH
amino acid	amino acid	F	Cl	OMe
amino acid	amino acid	F	Cl	OEt
amino acid	amino acid	F	C1	O-cyclopropyl
amino acid	amino acid	F	Cl	O-acetyl
amino acid	amino acid	F	Cl	SH
amino acid	amino acid	F	Cl	SMe
amino acid	amino acid	F	Cl	SEt
amino acid	amino acid	F	Cl	S-cyclopropyl
amino acid	amino acid	F	Cl	F
amino acid	amino acid	F	Cl	Cl
amino acid	amino acid	F	Cl	Br
amino acid	amino acid	F	Cl	I
amino acid	Н	F	Cl	Н
amino acid	H	F	Cl	NH ₂
amino acid	H	F	Cl	NH-cyclopropyl
amino acid	H	F	Cl	NH-methyl
amino acid	Н	F	Cl	NH-ethyl
amino acid	H	F	Cl	NH-acetyl
amino acid	Н	F	Cl	OH
amino acid	H	F	Cl	OMe
amino acid	H	F	Cl	OEt
amino acid	H	F	Cl	O-cyclopropyl
amino acid	H	F	Cl	O-acetyl
amino acid	Н	F	Cl	SH
amino acid	H	F	Cl	SMe
amino acid	H	F	Cl	SEt
amino acid	Н	F	Cl	S-cyclopropyl
amino acid	H	F	Cl	F
amino acid	H	F	Cl	Cl
amino acid	Н	F	Cl	Br
amino acid	H	F	Cl	I
amino acid	acyl	F	Cl	Н
amino acid	acyl	F	Cl	NH ₂
amino acid	acyl	F	Cl	NH-cyclopropyl
amino acid	acyl	F	Cl	NH-methyl
amino acid	acyl	F	Cl	NH-ethyl
amino acid	acyl	F	Cl	NH-acetyl
amino acid	acyl	F	Cl	OH
amino acid	acyl	F	Cl	OMe
amino acid	acyl	F	Cl	OEt
amino acid	acyl	F	Cl	O-cyclopropyl
amino acid	acyl	F	Cl	O-acetyl
amino acid	acyl	F	Cl	SH
amino acid	acyl	F	Cl	SMe
amino acid	acyl	F	Cl	SEt
amino acid	acyl	F	Cl	S-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
amino acid	acyl	F	Cl	F
amino acid	acyl	F	Cl	Cl
amino acid	acyl	F	Cl	Br
amino acid	acyl	F	Cl	I
acyl	Н	NH ₂	Cl	Н
acyl	H	NH ₂	Cl	NH ₂
acyl	H	NH ₂	Cl	NH-cyclopropyl
acyl	Н	NH ₂	Cl	NH-methyl
acyl	Н	NH ₂	Cl	NH-ethyl
acyl	H	NH ₂	Cl	NH-acetyl
acyl	Н	NH ₂	Cl	ОН
acyl	H	NH ₂	Cl	OMe
acyl	Н	NH ₂	Cl	OEt
acyl	Н	NH ₂	Cl	O-cyclopropyl
acyl	Н	NH ₂	Cl	O-acetyl
acyl	Н	NH ₂	Cl	SH
acyl	Н	NH ₂	Cl	SMe
acyl	H	NH ₂	Cl	SEt
acyl	Н	NH ₂	CI	S-cyclopropyl
acyl	H	NH ₂	Cl	F
acyl	H	NH ₂	Cl	Cl
acyl	H	NH ₂	Cl	Br
acyl	H	NH ₂	Cl	I
acyl	acyl	NH ₂	Cl	Н
acyl	acyl	NH ₂	Cl	NH ₂
acyl	acyl	NH ₂	Cl	NH-cyclopropyl
acyl	acyl	NH ₂	Cl	NH-methyl
acyl	acyl	NH ₂	Cl	NH-ethyl
acyl	acyl	NH ₂	Cl	NH-acetyl
acyl	acyl	NH ₂	Cl	ОН
acyl	acyl	NH ₂	Cl	OMe
acyl	acyl	NH ₂	Cl	OEt
acyl	acyl	NH ₂	Cl	O-cyclopropyl
acyl	acyl	NH ₂	C1	O-acetyl
acyl	acyl	NH ₂	Cl	SH
acyl	acyl	NH ₂	Cl	SMe
acyl	acyl	NH ₂	Cl	SEt
acyl	acyl	NH ₂	CI	S-cyclopropyl
acyl	acyl	NH ₂	Cl	F
acyl	acyl	NH ₂	Cl	Cl
acyl	acyl	NH ₂	Cl	Br
acyl	acyl	NH ₂	Cl	I
acyl	amino acid	NH ₂	Cl	H
acyl	amino acid	NH ₂	Cl	NH ₂
acyl	amino acid	NH ₂	Cl	NH-cyclopropyl
acyl	amino acid	NH ₂	Cl	NH-methyl
acyl	amino acid	NH ₂	Cl	NH-ethyl

\mathbb{R}^2	\mathbb{R}^3	X	X ²	Y
acyl	amino acid	NH ₂	Cl	NH-acetyl
acyl	amino acid	NH ₂	Cl	OH
acyl	amino acid	NH ₂	CI	OMe
acyl	amino acid	NH ₂	Cl	OEt
acyl	amino acid	NH ₂	Cl	O-cyclopropyl
acyl	amino acid	NH ₂	Cl	O-acetyl
acyl	amino acid	NH ₂	Cl	SH
acyl	amino acid	NH ₂	Cl	SMe
acyl	amino acid	NH ₂	Cl	SEt
acyl	amino acid	NH ₂	Cl	S-cyclopropyl
acyl	amino acid	NH ₂	Cl	F
acyl	amino acid	NH ₂	Cl	Cl
acyl	amino acid	NH ₂	Cl	Br
acyl	amino acid	NH ₂	Cl	I
H	acyl	NH ₂	Cl	Н
H	acyl	NH ₂	Cl	NH ₂
H	acyl	NH ₂	Cl	NH-cyclopropyl
Н	acyl	NH ₂	Cl	NH-methyl
Н	acyl	NH ₂	Cl	NH-ethyl
Н	acyl	NH ₂	Cl	NH-acetyl
Н	acyl	NH ₂	Cl	OH
H	acyl	NH ₂	Cl	OMe
Н	acyl	NH ₂	Cl	OEt
Н	acyl	NH ₂	Cl	O-cyclopropyl
Н	acyl	NH ₂	Cl	O-acetyl
Н	acyl	NH ₂	Cl	SH
Н	acyl	NH ₂	Cl	SMe
H	acyl	NH ₂	Cl	SEt
Н	acyl	NH ₂	Cl	S-cyclopropyl
Н	acyl	NH ₂	Cl	F
Н	acyl	NH ₂	Cl	Cl
Н	acyl	NH ₂	Cl	Br
H	acyl	NH ₂	Cl	I
Н	amino acid	NH ₂	Cl	H
Н	amino acid	NH ₂	Cl	NH ₂
Н	amino acid	NH ₂	Cl	NH-cyclopropyl
Н	amino acid	NH ₂	Cl	NH-methyl
H	amino acid	NH ₂	Cl	NH-ethyl
Н	amino acid	NH ₂	Cl	NH-acetyl
H	amino acid	NH ₂	Cl	ОН
H	amino acid	NH ₂	Cl	OMe
H	amino acid	NH ₂	Cl	OEt
Н	amino acid	NH ₂	Cl	O-cyclopropyl
Н	amino acid	NH ₂	Cl	O-acetyl
Н	amino acid	NH ₂	Cl	SH
Н	amino acid	NH ₂	Cl	SMe
Н	amino acid	NH ₂	Cl	SEt
	T = MILLO WOLG	1112		ODI.

\mathbb{R}^2	R ³	X ¹	X ²	Y
Н	amino acid	NH ₂	Cl	S-cyclopropyl
H	amino acid	NH ₂	Cl	F
H	amino acid	NH ₂	CI	CI
H	amino acid	NH ₂	Cl	Br
Н	amino acid	NH ₂	Cl	Ī
amino acid	amino acid	NH ₂	Cl	Н
amino acid	amino acid	NH ₂	Cl	NH ₂
amino acid	amino acid	NH ₂	Cl	NH-cyclopropyl
amino acid	amino acid	NH ₂	Cl	NH-methyl
amino acid	amino acid	NH ₂	Cl	NH-ethyl
amino acid	amino acid	NH ₂	Cl	NH-acetyl
amino acid	amino acid	NH ₂	Cl	OH
amino acid	amino acid	NH ₂	Cl	OMe
amino acid	amino acid	NH ₂	Cl	OEt
amino acid	amino acid	NH ₂	Cl	O-cyclopropyl
amino acid	amino acid	NH ₂	Cl	O-acetyl
amino acid	amino acid	NH ₂	Cl	SH
amino acid	amino acid	NH ₂	Cl	SMe
amino acid	amino acid	NH ₂	Cl	SEt
amino acid	amino acid	NH ₂	Cl	S-cyclopropyl
amino acid	amino acid	NH ₂	Cl	F
amino acid	amino acid	NH ₂	Cl	Cl
amino acid	amino acid	NH ₂	Cl	Br
amino acid	amino acid	NH ₂	Cl	I
amino acid	H	NH ₂	Cl	Н
amino acid	Н	NH ₂	Cl	NH ₂
amino acid	H	NH ₂	Cl	NH-cyclopropyl
amino acid	H	NH ₂	Cl	NH-methyl
amino acid	H	NH ₂	Cl	NH-ethyl
amino acid	H	NH ₂	Cl	NH-acetyl
amino acid	H	NH ₂	Cl	OH
amino acid	Н	NH ₂	Cl	OMe
amino acid	Н	NH ₂	Cl	OEt
amino acid	H	NH ₂	Cl	O-cyclopropyl
amino acid	H	NH ₂	Cl	O-acetyl
amino acid	Н	NH ₂	Cl	SH
amino acid	H	NH ₂	Cl	SMe
amino acid	H ·	NH ₂	Cl	SEt
amino acid	Н	NH ₂	Cl	S-cyclopropyl
amino acid	H	NH ₂	Cl	F
amino acid	Н	NH ₂	Cl	Cl
amino acid	Н	NH ₂	Cl	Br
amino acid	H	NH ₂	Cl	I
amino acid	acyl	NH ₂	Cl	H
amino acid	acyl	NH ₂	Cl	NH ₂
amino acid	acyl	NH ₂	Cl	NH-cyclopropyl
amino acid	acyl	NH ₂	Cl	
anno acid	acyı	NH ₂	CI	NH-methyl

\mathbb{R}^2	R ³	X^1	X ²	Y
amino acid	acyl	NH ₂	Cl	NH-ethyl
amino acid	acyl	NH ₂	Cl	NH-acetyl
amino acid	acyl	NH ₂	Cl	OH
amino acid	acyl	NH ₂	Cl	OMe
amino acid	acyl	NH ₂	Cl	OEt
amino acid	acyl	NH ₂	Cl	O-cyclopropyl
amino acid	acyl	NH ₂	Cl	O-acetyl
amino acid	acyl	NH ₂	Cl	SH
amino acid	acyl	NH ₂	Cl	SMe
amino acid	acyl	NH ₂	Cl	SEt
amino acid	acyl	NH ₂	Cl	S-cyclopropyl
amino acid	acyl	NH ₂	Cl	F
amino acid	acyl	NH ₂	Cl	Cl
amino acid	acyl	NH ₂	Cl	Br
amino acid	acyl	NH ₂	CI	I
acyl	H	SH	CI	H
acyl	Н	SH	Cl	NH ₂
acyl	H	SH	CI	NH-cyclopropyl
acyl	H	SH	Cl	NH-methyl
acyl	H	SH	Cl	NH-ethyl
acyl	H	SH	Cl	NH-acetyl
acyl	H	SH	Cl	OH
acyl	H	SH	Cl	OMe
acyl	H	SH	Cl	OEt
acyl	H	SH	Cl	O-cyclopropyl
acyl	H	SH	Cl	O-acetyl
acyl	Н	SH	CI	SH
acyl	H	SH	CI	SMe
acyl	Н	SH	Cl	SEt
acyl	Н	SH	Cl	S-cyclopropyl
acyl	Н	SH	Cl	F
acyl	Н	SH	Cl	Cl
acyl	Н	SH	Cl	Br
acyl	H	SH	Cl	I
acyl	acyl	SH	Cl	H
acyl	acyl	SH	Cl	NH ₂
acyl	acyl	SH	Ci	NH-cyclopropyl
acyl	acyl	SH	Cl	NH-methyl
acyl	acyl	SH	CI	NH-ethyl
acyl	acyl	SH	Cl	NH-acetyl
acyl	acyl	SH	Cl	OH
acyl	acyl	SH	Cl	OMe
acyl	acyl	SH	Cl	OEt
acyl	acyl	SH	CI	
acyl	acyl	SH	Cl	O-cyclopropyl
acyl	acyl	SH	Cl	O-acetyl
acyl				SH
acyı	acyl	SH	Cl	SMe

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	acyl	SH	Cl	SEt
acyl	acyl	SH	Cl	S-cyclopropyl
acyl	acyl	SH	Cl	F
acyl	acyl	SH	Cl	Cl
acyl	acyl	SH	Cl	Br
acyl	acyl	SH	Cl	I
acyl	amino acid	SH	Cl	H
acyl	amino acid	SH	Cl	NH ₂
acyl	amino acid	SH	Cl	NH-cyclopropyl
acyl	amino acid	SH	Cl	NH-methyl
acyl	amino acid	SH	Cl	NH-ethyl
acyl	amino acid	SH	Cl	NH-acetyl
acyl	amino acid	SH	Cl	ОН
acyl	amino acid	SH	Cl	OMe
acyl	amino acid	SH	Cl	OEt
acyl	amino acid	SH	Cl	O-cyclopropyl
acyl	amino acid	SH	Cl	O-acetyl
acyl	amino acid	SH	Cl	SH
acyl	amino acid	SH	Cl	SMe
acyl	amino acid	SH	Cl	SEt
acyl	amino acid	SH	Cl	S-cyclopropyl
acyl	amino acid	SH	Cl	F
acyl	amino acid	SH	Cl	CI
acyl	amino acid	SH	Cl	Br
acyl	amino acid	SH	Cl	I
Н	acyl	SH	Cl	H
Н	acyl	SH	Cl	NH ₂
H	acyl	SH	Cl	NH-cyclopropyl
Н	acyl	SH	Cl	NH-methyl
Н	acyl	SH	Cl	NH-ethyl
H	acyl	SH	Cl	NH-acetyl
Н	acyl	SH	Cl	OH
H	acyl	SH	Cl	OMe
H	acyl	SH	Cl	OEt
Н	acyl	SH	Cl	O-cyclopropyl
H	acyl	SH	Cl	O-acetyl
Н	acyl	SH	Cl	SH
H	acyl	SH	Cl	SMe
Н	acyl	SH	Cl	SEt
H	acyl	SH	Ci	S-cyclopropyl
Н	acyl	SH	Cl	F
Н	acyl	SH	Cl	Cl
H	acyl	SH	Cl	Br
Н	acyl	SH	Cl	I
H	amino acid	SH	Cl	H
H	amino acid	SH	Cl	NH ₂
H	amino acid			
п	amino acid	SH	Cl	NH-cyclopropyl

R ²	\mathbb{R}^3	X	X ²	Y
Н	amino acid	SH	Cl	NH-methyl
H	amino acid	SH	Cl	NH-ethyl
H	amino acid	SH	CI	NH-acetyl
H	amino acid	SH	Cl	OH
H	amino acid	SH	Cl	OMe
H	amino acid	SH	Cl	OEt
H	amino acid	SH	Cl	O-cyclopropyl
Н	amino acid	SH	Cl	O-acetyl
Н	amino acid	SH	Cl	SH
H	amino acid	SH	Cl	SMe
Н	amino acid	SH	Cl	SEt
Н	amino acid	SH	Cl	S-cyclopropyl
H	amino acid	SH	Cl	F
H	amino acid	SH	Cl	Cl
Н	amino acid	SH	Cl	Br
H	amino acid	SH	Cl	I
amino acid	amino acid	SH	Cl	H
amino acid	amino acid	SH	Cl	NH ₂
amino acid	amino acid	SH	Cl	NH-cyclopropyl
amino acid	amino acid	SH	Cl	NH-methyl
amino acid	amino acid	SH	Cl	NH-ethyl
amino acid	amino acid	SH	Cl	NH-acetyl
amino acid	amino acid	SH	Cl	OH
amino acid	amino acid	SH	Cì	OMe
amino acid	amino acid	SH	Cl	OEt
amino acid	amino acid	SH	Cl	O-cyclopropyl
amino acid	amino acid	SH	Cl	O-acetyl
amino acid	amino acid	SH	Cl	SH
amino acid	amino acid	SH	Cl	SMe
amino acid	amino acid	SH	Cl	SEt
amino acid	amino acid	SH	Cl	S-cyclopropyl
amino acid	amino acid	SH	Cl	F
amino acid	amino acid	SH	Cl	Cl
amino acid	amino acid	SH	Cl	Br
amino acid	amino acid	SH	Cl	I
amino acid	H	SH	Cl	Н
amino acid	H	SH	Cl	NH ₂
amino acid	Н	SH	Cl	NH-cyclopropyl
amino acid	Н	SH	Cl	NH-methyl
amino acid	H	SH	Cl	NH-ethyl
amino acid	H	SH	Cl	NH-acetyl
amino acid	H	SH	Cl	OH
amino acid	H	SH	Cl	OMe
amino acid	H	SH	CI	OEt
amino acid	H	SH	Cl	O-cyclopropyl
amino acid	H	SH	Cl	O-acetyl
amino acid	H	SH	Cl	SH
		1 311		DII

R ²	R ³	X ¹	X ²	Y
amino acid	H	SH	Cl	SMe
amino acid	H	SH	Cl	SEt
amino acid	H	SH	Cl	S-cyclopropyl
amino acid	H	SH	Cl	F
amino acid	Н	SH	Cl	Cl
amino acid	Н	SH	Cl	Br
amino acid	Н	SH	Cl	I
amino acid	acyl	SH	Cl	H
amino acid	acyl	SH	Cl	NH ₂
amino acid	acyl	SH	Cl	NH-cyclopropyl
amino acid	acyl	SH	Cl	NH-methyl
amino acid	acyl	SH	Cl	NH-ethyl
amino acid	acyl	SH	Cl	NH-acetyl
amino acid	acyl	SH	Cl	ОН
amino acid	acyl	SH	Cl	OMe
amino acid	acyl	SH	Cl	OEt
amino acid	acyl	SH	Cl	O-cyclopropyl
amino acid	acyl	SH	Cl	O-acetyl
amino acid	acyl	SH	Cl	SH
amino acid	acyl	SH	Cl	SMe
amino acid	acyl	SH	Cl	SEt
amino acid	acyl	SH	Cl	S-cyclopropyl
amino acid	acyl	SH	Cl	F
amino acid	acyl	SH	Cl	Cl
amino acid	acyl	SH	Cl	Br
amino acid	acyl	SH	Cl	I
acyl	Н	OH	Cl	H
acyl	H	OH	Cl	NH ₂
acyl	H	OH	Cl	NH-cyclopropyl
acyl	H	OH	Cl	NH-methyl
acyl	H	OH	Cl	NH-ethyl
acyl	H	OH	Cl	NH-acetyl
acyl	H	OH	Cl	OH
acyl	H	OH	Cl	OMe
acyl	H	OH	Cl	OEt
acyl	H	OH	Cl	O-cyclopropyl
acyl	H	OH	Cl	O-acetyl
acyl	H	OH	Cl	SH
acyl	H	OH	Cl	SMe
	Н	OH	Cl	SEt
acyl	H	OH	Cl	S-cyclopropyl
acyl	Н			F S-cyclopropyl
acyl		OH	Cl	
acyl	H	OH	Cl	Cl
acyl	H	OH	Cl	Br
acyl	H	OH	Cl	I
acyl	acyl	OH	Cl	H
acyl	acyl	ОН	Cl	NH ₂

R ²	R ³	X ¹	X ²	Y
acyl	acyl	OH	Cl	NH-cyclopropyl
acyl	acyl	OH	Cl	NH-methyl
acyl	acyl	OH	Cl	NH-ethyl
acyl	acyl	OH	Cl	NH-acetyl
acyl	acyl	OH	Cl	OH
acyl	acyl	OH	Cl	OMe
acyl	acyl	OH	Cl	OEt
acyl	acyl	OH	Cl	O-cyclopropyl
acyl	acyl	OH	Cl	O-acetyl
acyl	acyl	OH	Cl	SH
acyl	acyl	OH	Cl	SMe
acyl	acyl	OH	CI	SEt
acyl	acyl	ОН	Cl	S-cyclopropyl
acyl	acyl	OH	Cl	F
acyl	acyl	ОН	Cl	Cl
acyl	acyl	OH	Cl	Br
acyl	acyl	OH	Cl	I
acyl	amino acid	OH	Cl	H
acyl	amino acid	ОН	Cl	NH ₂
acyl	amino acid	OH	Cl	NH-cyclopropyl
acyl	amino acid	OH	Cl	NH-methyl
acyl	amino acid	OH	Cl	NH-ethyl
acyl	amino acid	ОН	Cl	NH-acetyl
acyl	amino acid	OH	Cl	OH
acyl	amino acid	OH	Cl	OMe
acyl	amino acid	OH	Cl	OEt
acyl	amino acid	OH	Cl	O-cyclopropyl
acyl	amino acid	OH	Cl	O-acetyl
acyl	amino acid	OH	Cl	SH
acyl	amino acid	OH	Cl	SMe
acyl	amino acid	OH	Cl	SEt
acyl	amino acid	OH	Cl	S-cyclopropyl
acyl	amino acid	OH	Cl	F
acyl	amino acid	OH	Cl	Cl
acyl	amino acid	OH	Cl	Br
acyl	amino acid	OH	Cl	I
H	acyl	OH	Cl	H
Н	acyl	OH	Cl	NH ₂
H	acyl	OH	CI	NH-cyclopropyl
H	acyl	OH	Cl	NH-methyl
Н	acyl	OH	Cl	NH-ethyl
Н	acyl	OH	Cl	NH-acetyl
Н	acyl	OH	Cl	OH
Н	acyl	OH	CI	OMe
H	acyl	ОН	Cl	OEt
H	acyl	OH	Cl	O-cyclopropyl
Н	acyl	OH	Cl	O-acetyl

\mathbb{R}^2	R ³	$\mathbf{X}^{\mathbf{I}}$	\mathbf{X}^2	Y
H	acyl	OH	Cl	SH
H	acyl	OH	Cl	SMe
Н	acyl	ОН	Cl	SEt
H	acyl	OH	Cl	S-cyclopropyl
H	acyl	OH	Cl	F
Н	acyl	OH	Cl	Cl
H	acyl	OH	Cl	Br
Н	acyl	ОН	Cl	I
Н	amino acid	ОН	Cl	Н
H	amino acid	OH	Cl	NH ₂
Н	amino acid	ОН	Cl	NH-cyclopropyl
H	amino acid	OH	Cl	NH-methyl
Н	amino acid	OH	Cl	NH-ethyl
H	amino acid	ОН	Cl	NH-acetyl
H	amino acid	OH	Cl	ОН
H	amino acid	OH	Cl	OMe
H	amino acid	OH	Cl	OEt
H	amino acid	OH	Cl	O-cyclopropyl
H	amino acid	OH	Cl	O-acetyl
Н	amino acid	ОН	Cl	SH
H	amino acid	OH	Cl	SMe
H	amino acid	OH	Cl	SEt
Н	amino acid	OH	Cl	S-cyclopropyl
H	amino acid	ОН	Cl	F
H	amino acid	ОН	Cl	Cl
H	amino acid	ОН	Cl	Br
H	amino acid	OH	CI	I
amino acid	amino acid	ОН	Cl	H
amino acid	amino acid	OH	Cl	NH ₂
amino acid	amino acid	ОН	Cl	NH-cyclopropyl
amino acid	amino acid	OH	Cl	NH-methyl
amino acid	amino acid	OH	Cl	NH-ethyl
amino acid	amino acid	OH	Cl	NH-acetyl
amino acid	amino acid	OH	Cl	OH
amino acid	amino acid	OH	Cl	OMe
amino acid	amino acid	OH	C1	OEt
amino acid	amino acid	OH	Cl	O-cyclopropyl
amino acid	amino acid	OH	Cl	O-acetyl
amino acid	amino acid	OH	Cl	SH
amino acid	amino acid	OH	Cl	SMe
amino acid	amino acid	OH	Cl	SEt
amino acid	amino acid	OH	Cl	S-cyclopropyl
amino acid	amino acid	OH	Cl	F
amino acid	amino acid	OH	Cl	Cl
amino acid	amino acid	ОН	Cl	Br
amino acid	amino acid	OH	Cl	I
amino acid	H	OH	Cl	H

R ²	R ³	X ¹	X ²	Y
amino acid	H	OH	Cl	NH ₂
amino acid	H	OH	Cl	NH-cyclopropyl
amino acid	Н	OH	Cl	NH-methyl
amino acid	Н	ОН	Cl	NH-ethyl
amino acid	Н	OH	CI	NH-acetyl
amino acid	Н	ОН	Ci	OH
amino acid	Н	OH	Cl	OMe
amino acid	Н	ОН	Cl	OEt
amino acid	Н	ОН	Cl	O-cyclopropyl
amino acid	Н	ОН	Cl	O-acetyl
amino acid	Н	OH	Cl	SH
amino acid	Н	OH	Cl	SMe
amino acid	H	ОН	Cl	SEt
amino acid	H	OH	Cl	S-cyclopropyl
amino acid	H	OH	Cl	F
amino acid	H	OH	Cl	Cl
amino acid	H	OH	CI	Br
amino acid	Н	OH	Ci	I
amino acid	acyl	ОН	Cl	H
amino acid	acyl	OH	Cl	NH ₂
amino acid	acyl	ОН	Cl	NH-cyclopropyl
amino acid	acyl	ОН	Ci	NH-methyl
amino acid	acyl	ОН	Ci	NH-ethyl
amino acid	acyl	ОН	Cl	NH-acetyl
amino acid	acyl	OH	Cl	OH
amino acid	acyl	ОН	Cl	OMe
amino acid	acyl	ОН	Cl	OEt
amino acid	acyl .	OH	Cl	O-cyclopropyl
amino acid	acyl	OH	Cl	O-acetyl
amino acid	acyl	ОН	Cl	SH
amino acid	acyl	OH	Cl	SMe
amino acid	acyl	ОН	Cl	SEt
amino acid	acyl	ОН	Cl	S-cyclopropyl
amino acid	acyl	ОН	Cl	F
amino acid	acyl	ОН	Cl	Cl
amino acid	acyl	ОН	Cl	Br
amino acid	acyl	OH	Cl	I
acyl	H	CH ₃	F	H
acyl	H	CH ₃	F	NH ₂
acyl	H	CH ₃	F	NH-cyclopropyl
acyl	H	CH ₃	F	NH-methyl
acyl	H	CH ₃	F	NH-ethyl
acyl	H	CH ₃	F	NH-acetyl
acyl	H	CH ₃	F	OH OH
acyl	H	CH ₃	F	OMe
acyl	H	CH ₃	F	OEt
acyl	H		F	
acyı	П	CH ₃	<u> </u>	O-cyclopropyl

R ²	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
acyl	H	CH ₃	F	O-acetyl
acyl	Н	CH ₃	F	SH
acyl	Н	CH ₃	F	SMe
acyl	Н	CH ₃	F	SEt
acyl	Н	CH ₃	F	S-cyclopropyl
acyl	H	CH ₃	F	F
acyl	Н	CH ₃	F	Cl
acyl	Н	CH ₃	F	Br
acyl	Н	CH ₃	F	I
acyl	acyl	CH ₃	F	Н
acyl	acyl	CH ₃	F	NH ₂
acyl	acyl	CH ₃	F	NH-cyclopropyl
acyl	acyl	CH ₃	F	NH-methyl
acyl	acyl	CH ₃	F	NH-ethyl
acyl	acyl	CH ₃	F	NH-acetyl
acyl	acyl	CH ₃	F	OH
acyl	acyl	CH ₃	F	OMe
acyl	acyl	CH ₃	F	OEt
acyl	acyl	CH ₃	F	O-cyclopropyl
acyl	acyl	CH ₃	F	O-acetyl
acyl	acyl	CH ₃	F	SH
acyl	acyl	CH ₃	F	SMe
acyl	acyl	CH ₃	F	SEt
acyl	acyl	CH ₃	F	S-cyclopropyl
acyl	acyl	CH ₃	F	F
acyl	acyl	CH ₃	F	Cl
acyl	acyl	CH ₃	F	Br
acyl	acyl	CH ₃	F	I
acyl	amino acid	CH ₃	F	Н
acyl	amino acid	CH ₃	F	NH ₂
acyl	amino acid	CH ₃	F	NH-cyclopropyl
acyl	amino acid	CH ₃	F	NH-methyl
acyl	amino acid	CH ₃	F	NH-ethyl
acyl	amino acid	CH ₃	F	NH-acetyl
acyl	amino acid	CH ₃	F	OH
acyl	amino acid	CH ₃	F	OMe
acyl	amino acid	CH ₃	F	OEt
acyl	amino acid	CH ₃	F	O-cyclopropyl
acyl	amino acid	CH ₃	F	O-acetyl
acyl	amino acid	CH ₃	F	SH
acyl	amino acid	CH ₃	F	SMe
acyl	amino acid	CH ₃	F	SEt
acyl	amino acid	CH ₃	F	S-cyclopropyl
acyl	amino acid	CH ₃	F	F
acyl	amino acid	CH ₃	F	Cl
acyl	amino acid	CH ₃	F	Br
acyl	amino acid	CH ₃	F	I

R ²	R ³	X ¹	X ²	Y
H	acyl	CH ₃	F	Н
Н	acyl	CH ₃	F	NH ₂
H	acyl	CH ₃	F	NH-cyclopropyl
Н	acyl	CH ₃	F	NH-methyl
Н	acyl	CH ₃	F	NH-ethyl
Н	acyl	CH ₃	F	NH-acetyl
Н	acyl	CH ₃	F	ОН
Н	acyl	CH ₃	F	OMe
Н	acyl	CH ₃	F	OEt
H	acyl	CH ₃	F	O-cyclopropyl
Н	acyl	CH ₃	F	O-acetyl
Н	acyl	CH ₃	F	SH
Н	acyl	CH ₃	F	SMe
Н	acyl	CH ₃	F	SEt
Н	acyl	CH ₃	F	S-cyclopropyl
H	acyl	CH ₃	F	F
Н	acyl	CH ₃	F	Cl
Н	acyl	CH ₃	F	Br
H	acyl	CH ₃	F	I
Н	amino acid	CH ₃	F	H
Н	amino acid	CH ₃	F	NH ₂
Н	amino acid	CH ₃	F	NH-cyclopropyl
Н	amino acid	CH ₃	F	NH-methyl
Н	amino acid	CH ₃	F	NH-ethyl
Н	amino acid	CH ₃	F	NH-acetyl
Н	amino acid	CH ₃	F	OH
H	amino acid	CH ₃	F	OMe
Н	amino acid	CH ₃	F	OEt
H	amino acid	CH ₃	F	O-cyclopropyl
Н	amino acid	CH ₃	F	O-acetyl
H	amino acid	CH ₃	F	SH
H	amino acid	CH ₃	F	SMe
Н	amino acid	CH ₃	F	SEt
H	amino acid	CH ₃	F	S-cyclopropyl
Н	amino acid	CH ₃	F	F
H	amino acid	CH ₃	F	Cl
Н	amino acid	CH ₃	F	Br
H	amino acid	CH ₃	F	I
amino acid	amino acid	CH ₃	F	Н
amino acid	amino acid	CH ₃	F	NH ₂
amino acid	amino acid	CH ₃	F	NH-cyclopropyl
amino acid	amino acid	CH ₃	F	NH-methyl
amino acid	amino acid	CH ₃	F	NH-ethyl
amino acid	amino acid	CH ₃	F	NH-acetyl
amino acid	amino acid	CH ₃	F	OH
amino acid	amino acid	CH ₃	F	OMe

R ²	R ³	X ¹	X ²	Y
amino acid	amino acid	CH ₃	F	O-cyclopropyl
amino acid	amino acid	CH ₃	F	O-acetyl
amino acid	amino acid	CH ₃	F	SH
amino acid	amino acid	CH ₃	F	SMe
amino acid	amino acid	CH ₃	F	SEt
amino acid	amino acid	CH ₃	F	S-cyclopropyl
amino acid	amino acid	CH ₃	F	F
amino acid	amino acid	CH ₃	F	Cl
amino acid	amino acid	CH ₃	F	Br
amino acid	amino acid	CH ₃	F	I
amino acid	H	CH ₃	F	H
amino acid	Н	CH ₃	F	NH ₂
amino acid	H	CH ₃	F	NH-cyclopropyl
amino acid	Н	CH ₃	F	NH-methyl
amino acid	H	CH ₃	F	NH-ethyl
amino acid	H	CH ₃	F	NH-acetyl
amino acid	H	CH ₃	F	OH
amino acid	Н	CH ₃	F	OMe
amino acid	H	CH ₃	F	OEt
amino acid	H	CH ₃	F	O-cyclopropyl
amino acid	H	CH ₃	F	O-acetyl
amino acid	Н	CH ₃	F	SH
amino acid	Н	CH ₃	F	SMe
amino acid	H	CH ₃	F	SEt
amino acid	Н	CH ₃	F	S-cyclopropyl
amino acid	H	CH ₃	F	F
amino acid	H	CH ₃	F	Cl
amino acid	Н	CH ₃	F	Br
amino acid	Н	CH ₃	F	Ì
amino acid	acyl	CH ₃	F	Н
amino acid	acyl	CH ₃	F	NH ₂
amino acid	acyl	CH ₃	F	NH-cyclopropyl
amino acid	acyl	CH ₃	F	NH-methyl
amino acid	acyl	CH ₃	F	NH-ethyl
amino acid	acyl	CH ₃	F	NH-acetyl
amino acid	acyl	CH ₃	F	ОН
amino acid	acyl	CH ₃	F	OMe
amino acid	acyl	CH ₃	F	OEt
amino acid	acyl	CH ₃	F	O-cyclopropyl
amino acid	acyl	CH ₃	F	O-acetyl
amino acid	acyl	CH₃	F	SH
amino acid	acyl	CH ₃	F	SMe
amino acid	acyl	CH ₃	F	SEt
amino acid	acyl	CH ₃	F	S-cyclopropyl
amino acid	acyl	CH ₃	F	F S-cyclopropyr
amino acid	acyl	CH ₃	F	Cl
amino acid	acyl	CH ₃	F	Br
winnio dold	Lacyi		1.	וט

R ²	\mathbb{R}^3	X^1	X ²	Y
amino acid	acyl	CH ₃	F	I
acyl	H	CF ₃	F	Н
acyl	Н	CF ₃	F	NH ₂
acyl	H	CF ₃	F	NH-cyclopropyl
acyl	H	CF ₃	F	NH-methyl
acyl	H	CF ₃	F	NH-ethyl
acyl	Н	CF ₃	F	NH-acetyl
acyl	H	CF ₃	F	ОН
acyl	Н	CF ₃	F	OMe
acyl	H	CF ₃	F	OEt
acyl	Н	CF ₃	F	O-cyclopropyl
acyl	Н	CF ₃	F	O-acetyl
acyl	Н	CF ₃	F	SH
acyl	H	CF ₃	F	SMe
acyl	Н	CF ₃	F	SEt
acyl	Н	CF ₃	F	S-cyclopropyl
acyl	H	CF ₃	F	F
acyl	Н	CF ₃	F	Cl
acyl	Н	CF ₃	F	Br
acyl	H	CF ₃	F	I
acyl	acyl	CF ₃	F	H
acyl	acyl	CF ₃	F	NH ₂
acyl	acyl	CF ₃	F	NH-cyclopropyl
acyl	acyl	CF ₃	F	NH-methyl
acyl	acyl	CF ₃	F	NH-ethyl
acyl	acyl	CF ₃	F	NH-acetyl
acyl	acyl	CF ₃	F	ОН
acyl	acyl	CF ₃	F	OMe
acyl	acyl	CF ₃	F	OEt
acyl	acyl	CF ₃	F	O-cyclopropyl
acyl	acyl	CF ₃	F	O-acetyl
acyl	acyl	CF ₃	F	SH
acyl	acyl	CF ₃	F	SMe
acyl	acyl	CF ₃	F	SEt
acyl	acyl	CF ₃	F	S-cyclopropyl
acyl	acyl	CF ₃	F	F
acyl	acyl	CF ₃	F	Cl
acyl	acyl	CF ₃	F	Br
acyl	acyl	CF ₃	F	I
acyl	amino acid	CF ₃	F	H
acyl	amino acid	CF ₃	F	NH ₂
acyl	amino acid	CF ₃	F	NH-cyclopropyl
acyl	amino acid	CF ₃	F	NH-methyl
acyl	amino acid	CF ₃	F	NH-ethyl
acyl	amino acid	CF ₃	F	NH-acetyl
acyl	amino acid	CF ₃	F	OH
acyl	amino acid	CF ₃	F	OMe
, .	dining acid	<u> </u>	1	OIVIC

R ²	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
acyl	amino acid	CF ₃	F	OEt
acyl	amino acid	CF ₃	F	O-cyclopropyl
acyl	amino acid	CF ₃	F	O-acetyl
acyl	amino acid	CF ₃	F	SH
acyl	amino acid	CF ₃	F	SMe
acyl	amino acid	CF ₃	F	SEt
acyl	amino acid	CF ₃	F	S-cyclopropyl
acyl	amino acid	CF ₃	F	F
acyl	amino acid	CF ₃	F	Cl
acyl	amino acid	CF ₃	F	Br
acyl	amino acid	CF ₃	F	I
H	acyl	CF ₃	F	H
Н	acyl	CF ₃	F	NH ₂
Н	acyl	CF ₃	F	NH-cyclopropyl
H	acyl	CF ₃	F	NH-methyl
Н	acyl	CF ₃	F	NH-ethyl
H	acyl	CF ₃	F	NH-acetyl
Н	acyl	CF ₃	$\frac{1}{F}$	OH
Н	acyl	CF ₃	F	OMe
Н	acyl	CF ₃	F	OEt
Н	acyl	CF ₃	$\frac{1}{F}$	O-cyclopropyl
Н	acyl	CF ₃	F	O-acetyl
Н	acyl	CF ₃	F	SH
H	acyl	CF ₃	F	SMe
H	acyl	CF ₃	F	SEt
Н	acyl	CF ₃	F	S-cyclopropyl
H	acyl	CF ₃	F	F
Н	acyl	CF ₃	F	Cl
H	acyl	CF ₃	F	Br
H	acyl	CF ₃	F	1
Н	amino acid	CF ₃	F	H
Н	amino acid	CF ₃	F	NH ₂
Н	amino acid	CF ₃	F	NH-cyclopropyl
H	amino acid	CF ₃	F	NH-methyl
H	amino acid	CF ₃	F	NH-ethyl
H	amino acid	CF ₃	F	NH-acetyl
H	amino acid	CF ₃	F	OH
Н	amino acid	CF ₃	F	OMe
Н	amino acid	CF ₃	F	OEt
Н	amino acid	CF ₃	F	O-cyclopropyl
H	amino acid	CF ₃	F	O-acetyl
H	amino acid	CF ₃	F	SH
H	amino acid	CF ₃	F	SMe
H	amino acid	CF ₃	$\frac{1}{F}$	SEt
H	amino acid	CF ₃	F	S-cyclopropyl
H	amino acid	CF ₃	$\frac{1}{F}$	F S-cyclopropyr
H	amino acid		$\frac{\Gamma}{F}$	Cl
L	aiiiiio aciu	CF ₃	Г	CI

R ²	\mathbb{R}^3	X ¹	X ²	Y
Н	amino acid	CF ₃	F	Br
Н	amino acid	CF ₃	F	I
amino acid	amino acid	CF ₃	F	H
amino acid	amino acid	CF ₃	F	NH ₂
amino acid	amino acid	CF ₃	F	NH-cyclopropyl
amino acid	amino acid	CF ₃	F	NH-methyl
amino acid	amino acid	CF ₃	F	NH-ethyl
amino acid	amino acid	CF ₃	F	NH-acetyl
amino acid	amino acid	CF ₃	F	OH OH
amino acid	amino acid	CF ₃	F	OMe
amino acid	amino acid	CF ₃	F	OEt
amino acid	amino acid	CF ₃	$\frac{1}{F}$	O-cyclopropyl
amino acid	amino acid	CF ₃	$\frac{\mathbf{F}}{\mathbf{F}}$	O-acetyl
amino acid	amino acid	CF ₃	$\frac{\Gamma}{F}$	SH
amino acid	amino acid	CF ₃	F	SMe
amino acid	amino acid			
amino acid		CF ₃	F F	SEt
amino acid	amino acid	CF ₃		S-cyclopropyl
	amino acid	CF ₃	F	F
amino acid	amino acid	CF ₃	F	Cl
amino acid	amino acid	CF ₃	F	Br
amino acid	amino acid	CF ₃	F	I
amino acid	H	CF ₃	F	H
amino acid	H	CF ₃	F	NH ₂
amino acid	Н	CF ₃	F	NH-cyclopropyl
amino acid	H	CF ₃	F	NH-methyl
amino acid	Н	CF ₃	F	NH-ethyl
amino acid	Н	CF ₃	F	NH-acetyl
amino acid	H	CF ₃	F	OH
amino acid	H	CF ₃	F	OMe
amino acid	H	CF ₃	F	OEt
amino acid	H	CF ₃	F	O-cyclopropyl
amino acid	H	CF ₃	F	O-acetyl
amino acid	Н	CF ₃	F	SH
amino acid	H	CF ₃	F	SMe
amino acid	H	CF ₃	. F	SEt
amino acid	H	CF ₃	F .	S-cyclopropyl
amino acid	H	CF ₃	F	F
amino acid	H	CF ₃	F	Cl
amino acid	H	CF ₃	F	Br
amino acid	Н	CF ₃	F	I
amino acid	acyl	CF ₃	F	H
amino acid	acyl	CF ₃	F	NH ₂
amino acid	acyl	CF ₃	F	NH-cyclopropyl
amino acid	acyl	CF ₃	F	NH-methyl
amino acid	acyl	CF ₃	$\frac{1}{F}$	NH-ethyl
amino acid	acyl	CF ₃	F	NH-acetyl
amino acid	acyl	CF ₃	F	OH OH
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R ²	R ³	X ¹	X ²	Y
amino acid	acyl	CF ₃	F	OMe
amino acid	acyl	CF ₃	F	OEt
amino acid	acyl	CF ₃	F	O-cyclopropyl
amino acid	acyl	CF ₃	F	O-acetyl
amino acid	acyl	CF ₃	F	SH
amino acid	acyl	CF ₃	F	SMe
amino acid	acyl	CF ₃	F	SEt
amino acid	acyl	CF ₃	F	S-cyclopropyl
amino acid	acyl	CF ₃	F	F
amino acid	acyl	CF ₃	F	Cl
amino acid	acyl	CF ₃	F	Br
amino acid	acyl	CF ₃	F	I
acyl	Н	Br	F	H
acyl	H	Br	F	NH ₂
acyl	Н	Br	F	NH-cyclopropyl
acyl	H	Br	F	NH-methyl
acyl	Н	Br	F	NH-ethyl
acyl	Н	Br	F	NH-acetyl
acyl	Н	Br	F	OH
acyl	H	Br	F	OMe
acyl	Н	Br	F	OEt
acyl	Н	Br	F	O-cyclopropyl
acyl	Н	Br	F	O-acetyl
acyl	H	Br	$\frac{1}{F}$	SH
acyl	H	Br	F	SMe
acyl	H	Br	F	SEt
acyl	Н	Br	F	S-cyclopropyl
acyl	H	Br	F	F
acyl	Н	Br	F	Cl
acyl	Н	Br	F	Br
acyl	Н	Br	F	I
acyl	acyl	Br	F	H
acyl	acyl	Br	F	NH ₂
acyl	acyl	Br	\overline{F}	NH-cyclopropyl
acyl	acyl	Br	F	NH-methyl
acyl	acyl	Br	F	NH-ethyl
acyl	acyl	Br	F	NH-acetyl
acyl	acyl	Br	F	ОН
acyl	acyl	Br	+F	OMe
acyl	acyl	Br	F	OEt
acyl	acyl	Br	$\frac{1}{F}$	O-cyclopropyl
acyl	acyl	Br	F	O-acetyl
acyl	acyl	Br	F	SH
acyl	acyl	Br	F	SMe
acyl	acyl	Br	F	SEt
acyl	acyl	Br	F	S-cyclopropyl
acyl	acyl	Br	F	F S-cyclopropyi
	Lacyi	<u></u>	1 L	I F

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	acyl	Br	F	Cl
acyl	acyl	Br	F	Br
acyl	acyl	Br	F	I
acyl	amino acid	Br	F	Н
acyl	amino acid	Br	F	NH ₂
acyl	amino acid	Br	F	NH-cyclopropyl
acyl	amino acid	Br	F	NH-methyl
acyl	amino acid	Br	F	NH-ethyl
acyl	amino acid	Br	F	NH-acetyl
acyl	amino acid	Br	F	OH
acyl	amino acid	Br	F	OMe
acyl	amino acid	Br	F	OEt
acyl	amino acid	Br	F	O-cyclopropyl
acyl	amino acid	Br	F	O-acetyl
acyl	amino acid	Br	F	SH
acyl	amino acid	Br	F	SMe
acyl	amino acid	Br	F	SEt
acyl	amino acid	Br	F	S-cyclopropyl
acyl	amino acid	Br	F	F
acyl	amino acid	Br	F	Cl
acyl	amino acid	Br	F	Br
acyl	amino acid	Br	F	I
H	acyl	Br	F	H
Н	acyl	Br	F	NH ₂
H	acyl	Br	F	NH-cyclopropyl
H	acyl	Br	F	NH-methyl
Н	acyl	Br	F	NH-ethyl
H	acyl	Br	F	NH-acetyl
Н	acyl	Br	F	OH
Н	acyl	Br	F	OMe
Н	acyl	Br	F	OEt
Н	acyl	Br	F	O-cyclopropyl
H	acyl	Br	F	O-acetyl
H	acyl	Br	F	SH
H	acyl	Br	F	SMe
Н	acyl	Br	F	SEt
Н	acyl	Br	F	S-cyclopropyl
Н	acyl	Br	F	F
Н	acyl	Br	F	Cl
Н	acyl	Br	F	Br
H	acyl	Br	F	I
Н	amino acid	Br	F	H
H	amino acid	Br	F	NH ₂
H	amino acid	Br	F	
H	amino acid	Br	F	NH-cyclopropyl
H	amino acid	Br	F	NH-methyl
H	amino acid			NH-ethyl
L 4.4	ammo acid	Br	F	NH-acetyl

\mathbb{R}^2	\mathbb{R}^3	X	X ²	Y
H	amino acid	Br	F	ОН
Н	amino acid	Br	F	OMe
Н	amino acid	Br	F	OEt
H	amino acid	Br	F	O-cyclopropyl
H	amino acid	Br	F	O-acetyl
Н	amino acid	Br	F	SH
Н	amino acid	Br	F	SMe
H	amino acid	Br	F	SEt
Н	amino acid	Br	F	S-cyclopropyl
H	amino acid	Br	F	F
H	amino acid	Br	F	Cl
Н	amino acid	Br	F	Br
H	amino acid	Br	F	I
amino acid	amino acid	Br	F	H
amino acid	amino acid	Br	F	NH ₂
amino acid	amino acid	Br	F	NH-cyclopropyl
amino acid	amino acid	Br	F	NH-methyl
amino acid	amino acid	Br	F	NH-ethyl
amino acid	amino acid	Br	F	NH-acetyl
amino acid	amino acid	Br	F	OH OH
amino acid	amino acid	Br	F	OMe
amino acid	amino acid	Br	F	OEt
amino acid	amino acid	Br	F	O-cyclopropyl
amino acid	amino acid	Br	F	O-acetyl
amino acid	amino acid	Br	F	SH
amino acid	amino acid	Br	F	SMe
amino acid	amino acid	Br	F	SEt
amino acid	amino acid	Br	$\frac{1}{F}$	S-cyclopropyl
amino acid	amino acid	Br	F	F
amino acid	amino acid	Br	F	Cl
amino acid	amino acid	Br	F	Br
amino acid	amino acid	Br	F	I
amino acid	H	Br	F	H
amino acid	H	Br	F	NH ₂
amino acid	H	Br	$\frac{1}{F}$	NH-cyclopropyl
amino acid	H	Br	F	NH-methyl
amino acid	H	Br	F	NH-ethyl
amino acid	H	Br	F	NH-acetyl
amino acid	H	Br	F	OH
amino acid	H	Br	F	OMe
amino acid	H	Br	F	OEt
amino acid	H	Br	F	
amino acid	H		F	O-cyclopropyl
amino acid		Br		O-acetyl
	<u> </u>	Br	F	SH
amino acid	H	Br	F	SMe
amino acid	H	Br	F	SEt
amino acid	Н	Br	F	S-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	X^1	X ²	Y
amino acid	Н	Br	F	F
amino acid	H	Br	F	Cl
amino acid	H	Br	F	Br
amino acid	H	Br	F	I
amino acid	acyl	Br	F	H
amino acid	acyl	Br	F	NH ₂
amino acid	acyl	Br	F	NH-cyclopropyl
amino acid	acyl	Br	F	NH-methyl
amino acid	acyl	Br	F	NH-ethyl
amino acid	acyl	Br	F	NH-acetyl
amino acid	acyl	Br	F	OH
amino acid	acyl	Br	F	OMe
amino acid	acyl	Br	† 	OEt
amino acid	acyl	Br	F	O-cyclopropyl
amino acid	acyl	Br	F	O-acetyl
amino acid	acyl	Br	F	SH
amino acid	acyl	Br	F	SMe
amino acid	acyl	Br	F	SEt
amino acid	acyl	Br	F	S-cyclopropyl
amino acid	acyl	Br	F	F
amino acid	acyl	Br	$\frac{1}{F}$	CI
amino acid	acyl	Br	F	Br
amino acid	acyl	Br	F	I
acyl	H	Cl	F	H
acyl	H	Cl	F	NH ₂
acyl	H	Cl	F	NH-cyclopropyl
acyl	H	Cl	F	NH-methyl
acyl	H	Cl	F	NH-ethyl
acyl	H	Cl	F	NH-acetyl
acyl	H	CI	F	OH
acyl	H	Cl	$\frac{\Gamma}{F}$	OMe
acyl	H	Cl	$\frac{\Gamma}{F}$	OEt
acyl	H	Cl	$\frac{\mathbf{F}}{\mathbf{F}}$	
acyl	H	Cl	F	O-cyclopropyl O-acetyl
acyl	H	Cl	$\frac{\Gamma}{F}$	SH SH
	H		$\frac{ \mathbf{r} }{\mathbf{F}}$	
acyl	H	Cl		SMe
acyl		Cl	F	SEt
acyl	H	Cl	F	S-cyclopropyl
acyl	H	Cl	F	F
acyl	H	Cl	F	Cl
acyl	H	Cl	F	Br
acyl	H	Cl	F	I
acyl	acyl	Cl	F	H
acyl	acyl	Cl	F	NH ₂
acyl	acyl	Cl	F	NH-cyclopropyl
acyl	acyl	Cl	F	NH-methyl
acyl	acyl	Cl	F	NH-ethyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	acyl	Cl	F	NH-acetyl
acyl	acyl	Cl	F	ОН
acyl	acyl	Cl	F	OMe
acyl	acyl	Cl	F	OEt)
acyl	acyl	Cl	F	O-cyclopropyl
acyl	acyl	Cl	F	O-acetyl
acyl	acyl	CI	F	SH
acyl	acyl	Cl	$\frac{1}{F}$	SMe
acyl	acyl	CI	$\frac{1}{F}$	SEt
acyl	acyl	Cl	F	S-cyclopropyl
acyl	acyl	Cl	F	F
acyl	acyl	Cl	F	Cl
acyl	acyl	Cl	$\frac{1}{F}$	Br
acyl	acyl	CI	F	I
acyl	amino acid	Cl	F	H
acyl	amino acid	Cl	F	NH ₂
acyl	amino acid	Cl	$\frac{1}{F}$	NH-cyclopropyl
acyl	amino acid	Cl	$\frac{1}{F}$	NH-methyl
acyl	amino acid	Cl	F	NH-ethyl
acyl	amino acid	Cl	F	NH-acetyl
acyl	amino acid	Cl	F	OH
acyl	amino acid	Cl	$\frac{1}{F}$	OMe
acyl	amino acid	Cl	$\frac{1}{F}$	OEt
acyl	amino acid	Cl	$\frac{\mathbf{F}}{\mathbf{F}}$	
acyl	amino acid	CI	$\frac{\mathbf{F}}{\mathbf{F}}$	O-cyclopropyl
acyl	amino acid	Cl	$\frac{\mathbf{F}}{\mathbf{F}}$	O-acetyl SH
acyl	amino acid	Cl	$\frac{\mathbf{F}}{\mathbf{F}}$	SMe
acyl	amino acid	Cl	$\frac{\mathbf{r}}{\mathbf{F}}$	SEt
acyl	amino acid	Cl	$\frac{\Gamma}{F}$	
acyl	amino acid	Cl	$-\frac{\mathbf{r}}{\mathbf{F}}$	S-cyclopropyl F
acyl	amino acid	Cl	$\frac{F}{F}$	Cl
acyl	amino acid	CI	$\frac{F}{F}$	Br
acyl	amino acid	Cl	$\frac{1}{F}$	I
H	 			
H	acyl	Cl Cl	$\frac{\mathbf{F}}{\mathbf{F}}$	H
H	+			NH ₂
H	acyl	Cl	$\frac{\mathbf{F}}{\mathbf{F}}$	NH-cyclopropyl
H	acyl	Cl	F	NH-methyl
	acyl	Cl	F	NH-ethyl
H	acyl	Cl	F	NH-acetyl
H	acyl	Cl	F	OH
H	acyl	Cl	F	OMe
H	acyl	Cl	F	OEt
H	acyl	Cl	F	O-cyclopropyl
H	acyl	Cl	F	O-acetyl
H	acyl	Cl	F	SH
H	acyl	Cl	F	SMe
H	acyl	Cl	F	SEt

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
H	acyl	Cl	F	S-cyclopropyl
Н	acyl	Cl	F	F
H	acyl	Cl	F	Cl
H	acyl	Cl	F	Br
Н	acyl	Cl	F	I
H	amino acid	Cl	F	H
Н	amino acid	Cl	F	NH ₂
Н	amino acid	Cl	F	NH-cyclopropyl
Н	amino acid	Cl	F	NH-methyl
Н	amino acid	Cl	F	NH-ethyl
Н	amino acid	Cl	F	NH-acetyl
H	amino acid	Cl	F	OH
H	amino acid	Cl	F	OMe
Н	amino acid	C1.	F	OEt
H	amino acid	Cl	F	O-cyclopropyl
H	amino acid	Cl	F	O-acetyl
H	amino acid	Cl	F	SH
H	amino acid	Cl	F	SMe
H	amino acid	Cl	F	SEt
H	amino acid	Cl	F	S-cyclopropyl
Н	amino acid	Cl	F	F
H	amino acid	Cl	F	Cl
H	amino acid	C1	F	Br
H	amino acid	Cl	F	I
amino acid	amino acid	Cl	F	H
amino acid	amino acid	Cl	F	NH ₂
amino acid	amino acid	Cl	F	NH-cyclopropyl
amino acid	amino acid	Cl	F	NH-methyl
amino acid	amino acid	Cl	F	NH-ethyl
amino acid	amino acid	Cl	F	NH-acetyl
amino acid	amino acid	Cl	F	OH
amino acid	amino acid	Cl	F	OMe
amino acid	amino acid	Cl	F	OEt
amino acid	amino acid	Cl	F	O-cyclopropyl
amino acid	amino acid	Cl	F	O-acetyl
amino acid	amino acid	Cl	F	SH
amino acid	amino acid	Cl	F	SMe
amino acid	amino acid	Cl _	F	SEt
amino acid	amino acid	CI	F	S-cyclopropyl
amino acid	amino acid	Cl	F	F
amino acid	amino acid	Cl	F	Cl
amino acid	amino acid	Cl	F	Br
amino acid	amino acid	Cl	F	I
amino acid	H	Cl	F	H
amino acid	H	Cl	F	NH ₂
amino acid	H	Cl	F	NH-cyclopropyl
amino acid	H	C1_	F	NH-methyl

amino acid H Cl F NI amino acid H Cl F OI amino acid H Cl F SI amino acid H Cl F I amino acid H Cl F I amino acid H Cl F NI amino acid H Cl F NI amino acid acyl Cl F NI amino acid	Me Et -cyclopropyl -acetyl I Me Et -cyclopropyl
amino acid H Cl F Oli amino acid H Cl F Sh amino acid Acyl Cl F NI amino acid	H Me Et -cyclopropyl -acetyl H Me Et cyclopropyl
amino acid H Cl F Of amino acid H Cl F St amino acid H Cl F I amino acid H Cl F I amino acid H Cl F I amino acid Acyl Cl F NI amino acid	Me Et -cyclopropyl -acetyl I Me Et -cyclopropyl
amino acid H Cl F OI amino acid H Cl F O- amino acid H Cl F O- amino acid H Cl F O- amino acid H Cl F SI- amino acid H Cl F I amino acid H Cl F II amino acid H Cl F II amino acid acyl Cl F NI	Et -cyclopropyl -acetyl H -Me -Et -cyclopropyl
amino acid H Cl F O- amino acid H Cl F O- amino acid H Cl F SH amino acid Acyl Cl F NI	cyclopropyl acetyl I Me Et cyclopropyl
amino acid H Cl F O- amino acid H Cl F SF amino acid H Cl F S- amino acid H Cl F F amino acid H Cl F Cl amino acid H Cl F Cl amino acid H Cl F I amino acid H Cl F II amino acid acyl Cl F MI amino acid acyl Cl F NI	eacetyl H Me Et cyclopropyl
amino acid H Cl F O- amino acid H Cl F SH amino acid H Cl F Cl amino acid H Cl F Cl amino acid H Cl F II amino acid H Cl F II amino acid acyl Cl F MI	eacetyl H Me Et cyclopropyl
amino acid H Cl F SH amino acid H Cl F SM amino acid H Cl F SM amino acid H Cl F SM amino acid H Cl F SH amino acid H Cl F SH amino acid H Cl F F Amino acid H Cl F Cl amino acid H Cl F Br amino acid H Cl F Br amino acid H Cl F I amino acid H Cl F I amino acid acyl Cl F M M Amino acid Amino acid acyl Cl F M M Amino acid Amino acid acyl Cl F M M Amino acid Amino acid acyl Cl F M M Amino acid A	I Me Et cyclopropyl
amino acid H Cl F SE amino acid H Cl F S- amino acid H Cl F S- amino acid H Cl F F amino acid H Cl F F amino acid H Cl F Cl amino acid H Cl F Br amino acid H Cl F I amino acid acyl Cl F H amino acid acyl Cl F NI	Et cyclopropyl
amino acid H Cl F S- amino acid H Cl F F amino acid H Cl F F amino acid H Cl F Cl amino acid H Cl F Br amino acid H Cl F I amino acid acyl Cl F H amino acid acyl Cl F NI	cyclopropyl
amino acid H Cl F S- amino acid H Cl F F amino acid H Cl F F amino acid H Cl F Cl amino acid H Cl F Br amino acid H Cl F I amino acid acyl Cl F H amino acid acyl Cl F NI	
amino acid H Cl F F amino acid H Cl F Cl amino acid H Cl F Cl amino acid H Cl F Br amino acid H Cl F I amino acid acyl Cl F M amino acid acyl Cl F NI	
amino acid H Cl F Cl amino acid H Cl F Br amino acid H Cl F Br amino acid H Cl F I amino acid acyl Cl F H amino acid acyl Cl F NI	
amino acid H Cl F Br amino acid H Cl F I amino acid acyl Cl F H amino acid acyl Cl F NI	
amino acidHClFIamino acidacylClFHamino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFOI	
amino acidacylClFHamino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFOI	
amino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFOI	
amino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFOI	H ₂
amino acidacylClFNIamino acidacylClFNIamino acidacylClFNIamino acidacylClFOI	H-cyclopropyl
amino acid acyl Cl F NI amino acid acyl Cl F NI amino acid acyl Cl F OI	H-methyl
amino acid acyl Cl F Ni amino acid acyl Cl F Oi	H-ethyl
amino acid acyl Cl F Ol	H-acetyl
amino acid acyl Cl F Ol	Me
amino acid acyl Cl F Ol	Et
	-cyclopropyl
	-acetyl
amino acid acyl Cl F SI	
	Мe
amino acid acyl Cl F SI	Et .
amino acid acyl Cl F S-	cyclopropyl
amino acid acyl Cl F F	
amino acid acyl Cl F Cl	
amino acid acyl Cl F Bi	r
amino acid acyl Cl F I	
acyl H F F H	
	H_2
acyl H F F N	H-cyclopropyl
acyl H F F N	H-methyl
	H-ethyl
	H-acetyl
acyl H F F O	
	Me
·	Et
	-cyclopropyl
	-acetyl
acyl H F F SI	
acyl H F F SI	H

R ²	\mathbb{R}^3	X¹	X ²	Y
acyl	H	F	F	SEt
acyl	H	F	F	S-cyclopropyl
acyl	Н	F	F	F
acyl	Н	F	F	Cl
acyl	Н	F	F	Br
acyl	H	F	F	I
acyl	acyl	F	F	H
acyl	acyl	F	F	NH ₂
acyl	acyl	F	F	NH-cyclopropyl
acyl	acyl	F	F	NH-methyl
acyl	acyl	F	F	NH-ethyl
acyl	acyl	F	F	NH-acetyl
acyl	acyl	F	F	OH
acyl	acyl	F	F	OMe
acyl	acyl	F	F	OEt
acyl	acyl	F	F	O-cyclopropyl
acyl	acyl	F	F	O-acetyl
acyl	acyl	F	F	SH
acyl	acyl	F	$\frac{1}{F}$	SMe
acyl	acyl	F	F	SEt
acyl	acyl	F	F	S-cyclopropyl
acyl	acyl	F	F	F
acyl	acyl	$\frac{1}{F}$	F	Cl
acyl	acyl	F	$\frac{1}{F}$	Br
acyl	acyl	F	F	I
acyl	amino acid	F	$\frac{1}{F}$	H
acyl	amino acid	F	$\frac{1}{F}$	NH ₂
acyl	amino acid	F	$\frac{1}{F}$	NH-cyclopropyl
acyl	amino acid	F	F	NH-methyl
acyl	amino acid	F	F	NH-ethyl
acyl	amino acid	F	F	NH-acetyl
acyl	amino acid	$\frac{1}{F}$	F	OH
acyl	amino acid	F	F	OMe
acyl	amino acid	$-\frac{1}{F}$	F	OEt
acyl	amino acid	F	F	O-cyclopropyl
acyl	amino acid	F	F	O-acetyl
acyl	amino acid	$\frac{1}{F}$	F	SH
acyl	amino acid	$-\frac{1}{F}$	$\frac{1}{F}$	SMe
acyl	amino acid	F	F	SEt
acyl	amino acid	F	F	S-cyclopropyl
acyl	amino acid	F	F	F
acyl	amino acid	F	F	Cl
acyl	amino acid	F	F	Br
acyl	amino acid	F	F	I
H		$\frac{\mathbf{F}}{\mathbf{F}}$	F	H
Н	acyl	$\frac{\mathbf{F}}{\mathbf{F}}$		
H	acyl		F	NH ₂
П	acyl	F	F	NH-cyclopropyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
H	acyl	F	F	NH-methyl
Н	acyl	F	F	NH-ethyl
Н	acyl	F	F	NH-acetyl
H	acyl	F	F	ОН
Н	acyl	F	F	OMe
H	acyl	F	F	OEt
H	acyl	F	F	O-cyclopropyl
H	acyl	F	F	O-acetyl
Н	acyl	F	F	SH
H	acyl	F	F	SMe
H	acyl	F	F	SEt
H	acyl	F	F	S-cyclopropyl
H	acyl	F	F	F
Н	acyl	F	F	Cl
Н	acyl	F	F	Br
H	acyl	F	F	Ī
H	amino acid	\overline{F}	F	H
Н	amino acid	F	F	NH ₂
H	amino acid	F	F	NH-cyclopropyl
Н	amino acid	F	F	NH-methyl
H	amino acid	F	F	NH-ethyl
H	amino acid	F	F	NH-acetyl
H	amino acid	F	F	OH
Н	amino acid	F	F	OMe
H	amino acid	F	F	OEt
Н	amino acid	F	F	O-cyclopropyl
Н	amino acid	F	F	O-acetyl
Н	amino acid	F	F	SH
Н	amino acid	F	F	SMe
Н	amino acid	F	F	SEt
Н	amino acid	F	F	S-cyclopropyl
Н	amino acid	F	F	F
H	amino acid	F	F	Cl
Н	amino acid	F	F	Br
H	amino acid	F	F	I
amino acid	amino acid	F	F	H
amino acid	amino acid	F	F	NH ₂
amino acid	amino acid	F	F	NH-cyclopropyl
amino acid	amino acid	F	F	NH-methyl
amino acid	amino acid	F	F	NH-ethyl
amino acid	amino acid	F	F	NH-acetyl
amino acid	amino acid	F	F	OH
amino acid	amino acid	F	F	OMe
amino acid	amino acid	F	F	OEt
amino acid	amino acid	F	F	O-cyclopropyl
amino acid	amino acid	F	F	O-acetyl
amino acid	amino acid	F	F	SH

\mathbb{R}^2	\mathbb{R}^3	X^1	X ²	Y
amino acid	amino acid	F	F	SMe
amino acid	amino acid	F	F	SEt
amino acid	amino acid	F	F	S-cyclopropyl
amino acid	amino acid	F	F	F
amino acid	amino acid	F	F	Cl
amino acid	amino acid	F	F	Br
amino acid	amino acid	F	F	Ī
amino acid	Н	F	F	H
amino acid	Н	F	F	NH ₂
amino acid	Н	F	F	NH-cyclopropyl
amino acid	Н	F	F	NH-methyl
amino acid	Н	F	F	NH-ethyl
amino acid	H	F	F	NH-acetyl
amino acid	H	F	F	OH
amino acid	H	F	F	OMe
amino acid	H	$\frac{1}{F}$	+F	OEt
amino acid	H	F	F	O-cyclopropyl
amino acid	Н	$-\frac{1}{F}$	F	O-acetyl
amino acid	H	F	F	SH
amino acid	H	F	F	SMe
amino acid	H	F	F	SEt
amino acid	H	F	F	S-cyclopropyl
amino acid	H	$-\frac{1}{F}$	F	F
amino acid	H	F	F	Cl
amino acid	H	F	$\frac{1}{F}$	Br
amino acid	H	F	F	I
amino acid	acyl	F	F	H
amino acid	acyl	F	F	NH ₂
amino acid	acyl	$\frac{1}{F}$	$\frac{1}{\mathbf{F}}$	NH-cyclopropyl
amino acid	acyl	F	F	NH-methyl
amino acid	acyl	F	F	NH-ethyl
amino acid	acyl	F	F	NH-acetyl
amino acid	acyl	F	F	OH
amino acid	acyl	$\frac{1}{F}$	F	OMe
amino acid	acyl	F	F	OEt
amino acid	acyl	F	F	O-cyclopropyl
amino acid	acyl	F	F	O-acetyl
amino acid	acyl	F	$\frac{1}{F}$	SH
amino acid	acyl	F	F	SMe
amino acid	acyl	F	F	SEt
amino acid	acyl	F	$\frac{1}{F}$	S-cyclopropyl
amino acid	acyl	F	F	F
amino acid	acyl	F	$\frac{\Gamma}{F}$	Cl
amino acid		$\frac{\mathbf{F}}{\mathbf{F}}$	$\frac{\mid \mathbf{F} \mid}{\mathbf{F}}$	
amino acid	acyl	$\frac{\mathbf{F}}{\mathbf{F}}$	$\frac{F}{F}$	Br
	acyl			I
acyl	H	NH ₂	F	- H
acyl	H	NH ₂	F	NH ₂

\mathbb{R}^2	R ³	X^1	X ²	Y
acyl	Н	NH ₂	F	NH-cyclopropyl
acyl	H	NH ₂	F	NH-methyl
acyl	H	NH ₂	F	NH-ethyl
acyl	Н	NH ₂	F	NH-acetyl
acyl	Н	NH ₂	F	ОН
acyl	H	NH ₂	F	OMe
acyl	Н	NH ₂	F	OEt
acyl	H	NH ₂	F	O-cyclopropyl
acyl	H	NH ₂	F	O-acetyl
acyl	H	NH ₂	F	SH
acyl	H	NH ₂	F	SMe
acyl	Н	NH ₂	F	SEt
acyl	Н	NH ₂	F	S-cyclopropyl
acyl	Н	NH ₂	F	F
acyl	H	NH ₂	F	CI
acyl	H	NH ₂	F	Br
acyl	H	NH ₂	F	I
acyl	acyl	NH ₂	F	H
acyl	acyl	NH ₂	F	NH ₂
acyl	acyl	NH ₂	F	NH-cyclopropyl
acyl	acyl	NH ₂	F	NH-methyl
acyl	acyl	NH ₂	F	NH-ethyl
acyl	acyl	NH ₂	F	NH-acetyl
acyl	acyl	NH ₂	F	OH
acyl	acyl	NH ₂	F	OMe
acyl	acyl	NH ₂	F	OEt
acyl	acyl	NH ₂	F	O-cyclopropyl
acyl	acyl	NH ₂	F	O-acetyl
acyl	acyl	NH ₂	F	SH
acyl	acyl	NH ₂	F	SMe
acyl	acyl	NH ₂	F	SEt
acyl	acyl	NH ₂	F	S-cyclopropyl
acyl	acyl	NH ₂	F	F
acyl	acyl	NH ₂	F	Cl
acyl	acyl	NH ₂	F	Br
acyl	acyl	NH ₂	F	I
acyl	amino acid	NH ₂	F	H
acyl	amino acid	NH ₂	F	NH ₂
acyl	amino acid	NH ₂	F	NH-cyclopropyl
acyl	amino acid	NH ₂	F	NH-methyl
acyl	amino acid	NH ₂	F	NH-ethyl
acyl	amino acid	NH ₂	F	NH-acetyl
acyl	amino acid	NH ₂	F	OH
acyl	amino acid	NH ₂	F	OMe
acyl	amino acid	NH ₂	F	OEt
acyl	amino acid	NH ₂	F	O-cyclopropyl
acyl	amino acid	NH ₂	F	O-acetyl
acyı	Lamino acid	INFI2		U-acetyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	amino acid	NH ₂	F	SH
acyl	amino acid	NH ₂	F	SMe
acyl	amino acid	NH ₂	F	SEt
acyl	amino acid	NH ₂	F	S-cyclopropyl
acyl	amino acid	NH ₂	F	F
acyl	amino acid	NH ₂	F	Cl
acyl	amino acid	NH ₂	F	Br
acyl	amino acid	NH ₂	F	
H	acyl	NH ₂	F	H
H	acyl	NH ₂	F	NH ₂
H	acyl	NH ₂	F	NH-cyclopropyl
H	acyl	NH ₂	F	NH-methyl
H	acyl	NH ₂	F	NH-ethyl
Н	acyl	NH ₂	F	NH-acetyl
H	acyl	NH ₂	F	OH
H	acyl	NH ₂	F	OMe
H	acyl	NH ₂	F	OEt
H	acyl	NH ₂	F	O-cyclopropyl
H	acyl	NH ₂	F	O-acetyl
Н	acyl	NH ₂	F	SH
H	acyl	NH ₂	F	SMe
H	acyl	NH ₂	F	SEt
H	acyl	NH ₂	F	S-cyclopropyl
Н	acyl	NH ₂	F	F
H	acyl	NH ₂	F	Cl
H	acyl	NH ₂	F	Br
H	acyl	NH ₂	F	I
H	amino acid	NH ₂	F	H
Н	amino acid	NH ₂	F	NH ₂
Н	amino acid	NH ₂	F	NH-cyclopropyl
Н	amino acid	NH ₂	F	NH-methyl
H	amino acid	NH ₂	F	NH-ethyl
Н	amino acid	NH ₂	F	NH-acetyl
H	amino acid	NH ₂	F	OH
Н	amino acid	NH ₂	F	OMe
H	amino acid	NH ₂	F	OEt
H	amino acid	NH ₂	F	O-cyclopropyl
H	amino acid	NH ₂	F	O-acetyl
H	amino acid	NH ₂	F	SH
H	amino acid	NH ₂	F	SMe
Н	amino acid	NH ₂	F	SEt
H	amino acid	NH ₂	F	S-cyclopropyl
H	amino acid	NH ₂	F	F
H	amino acid	NH ₂	F	Cl
Н	amino acid	NH ₂	F	Br
	amino acid	NH ₂	F	I
H	i aminio aciu	[[NI 17	1 4	1 A

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	amino acid	NH ₂	F	NH ₂
amino acid	amino acid	NH ₂	F	NH-cyclopropyl
amino acid	amino acid	NH ₂	F	NH-methyl
amino acid	amino acid	NH ₂	F	NH-ethyl
amino acid	amino acid	NH ₂	F	NH-acetyl
amino acid	amino acid	NH ₂	F	OH
amino acid	amino acid	NH ₂	F	OMe
amino acid	amino acid	NH ₂	F	OEt
amino acid	amino acid	NH ₂	F	O-cyclopropyl
amino acid	amino acid	NH ₂	F	O-acetyl
amino acid	amino acid	NH ₂	F	SH
amino acid	amino acid	NH ₂	F	SMe
amino acid	amino acid		F	
amino acid		NH ₂		SEt
amino acid	amino acid	NH ₂	F	S-cyclopropyl
	amino acid	NH ₂	F	F
amino acid	amino acid	NH ₂	F	Cl
amino acid	amino acid	NH ₂	F	Br
amino acid	amino acid	NH ₂	F	I
amino acid	H	NH ₂	F	H
amino acid	H	NH ₂	F_	NH ₂
amino acid	Н	NH ₂	F	NH-cyclopropyl
amino acid	H	NH ₂	F	NH-methyl
amino acid	H	NH ₂	F	NH-ethyl
amino acid	H	NH ₂	F	NH-acetyl
amino acid	<u>H</u>	NH ₂	F	OH
amino acid	H	NH ₂	F	OMe
amino acid	H	NH ₂	F	OEt
amino acid	H	NH ₂	F	O-cyclopropyl
amino acid	H	NH ₂	F	O-acetyl
amino acid	Н	NH ₂	F	SH
amino acid	H	NH ₂	F	SMe
amino acid	Н	NH ₂	F	SEt
amino acid	H	NH ₂	F	S-cyclopropyl
amino acid	H	NH ₂	F	F
amino acid	Н	NH ₂	F	Cl
amino acid	H	NH ₂	F	Br
amino acid	H	NH ₂	F	I
amino acid	acyl	NH ₂	+F	H
amino acid	acyl	NH ₂	F	NH ₂
amino acid	acyl	NH ₂	$\frac{1}{F}$	NH-cyclopropyl
amino acid	acyl	NH ₂	$\frac{F}{F}$	
amino acid			$\frac{ \mathbf{F} }{ \mathbf{F} }$	NH-methyl
\	acyl	NH ₂		NH-ethyl
amino acid	acyl	NH ₂	F	NH-acetyl
amino acid	acyl	NH ₂	F	OH
amino acid	acyl	NH ₂	F	OMe
amino acid	acyl	NH ₂	F	OEt
amino acid	acyl	NH ₂	F_	O-cyclopropyl

R^2	\mathbb{R}^3	X^{1}	X ²	Y
amino acid	acyl	NH ₂	F	O-acetyl
amino acid	acyl	NH ₂	F	SH
amino acid	acyl	NH ₂	F	SMe
amino acid	acyl	NH ₂	F	SEt
amino acid	acyl	NH ₂	F	S-cyclopropyl
amino acid	acyl	NH ₂	F	F
amino acid	acyl	NH ₂	F	CI
amino acid	acyl	NH ₂	F	Br
amino acid	acyl	NH ₂	F	I
acyl	Н	SH	F	Н
acyl	H	SH	F	NH ₂
acyl	H	SH	F	NH-cyclopropyl
acyl	H	SH	F	NH-methyl
acyl	Н	SH	F	NH-ethyl
acyl	Н	SH	F	NH-acetyl
acyl	H	SH	F	OH
acyl	H	SH	F	OMe
acyl	Н	SH	F	OEt
acyl	Н	SH	F	O-cyclopropyl
acyl	H	SH	F	O-acetyl
acyl	Н	SH	$\frac{1}{F}$	SH
acyl	H	SH	F	SMe
acyl	H	SH	F	SEt
acyl	H	SH	F	S-cyclopropyl
acyl	H	SH	$\frac{1}{F}$	F
acyl	H	SH	F	Cl
acyl	$\frac{1}{H}$	SH	F	Br
acyl	H	SH	F	Ī
acyl	acyl	SH	$\frac{1}{F}$	H
acyl	acyl	SH	$\frac{1}{F}$	NH ₂
acyl	acyl	SH	F	NH-cyclopropyl
acyl	acyl	SH	F	NH-methyl
acyl	acyl	SH	F	NH-ethyl
acyl	acyl	SH	F	NH-acetyl
acyl	acyl	SH	F	ОН
acyl	acyl	SH	F	OMe
acyl	acyl	SH	F	OEt
acyl	acyl	SH	F	O-cyclopropyl
acyl	acyl	SH	$\frac{1}{F}$	O-acetyl
acyl	acyl	SH	$\frac{1}{F}$	SH
acyl	acyl	SH	F	SMe
acyl	acyl	SH	$\frac{1}{F}$	SEt
acyl		SH	$\frac{\Gamma}{F}$	1
	acyl		F	S-cyclopropyl
acyl	acyl	SH		F
acyl	acyl	SH	F	Cl
acyl	acyl	SH	F	Br
acyl	acyl	SH	F	I

R ²	R ³	XI	X ²	Y
acyl	amino acid	SH	F	H
acyl	amino acid	SH	F	NH ₂
acyl	amino acid	SH	F	NH-cyclopropyl
acyl	amino acid	SH	F	NH-methyl
acyl	amino acid	SH	F	NH-ethyl
acyl	amino acid	SH	F	NH-acetyl
acyl	amino acid	SH	F	OH
acyl	amino acid	SH	F	OMe
acyl	amino acid	SH	F	OEt
acyl	amino acid	SH	F	O-cyclopropyl
acyl	amino acid	SH	F	O-acetyl
acyl	amino acid	SH	F	SH
acyl	amino acid	SH	F	SMe
acyl	amino acid	SH	F	SEt
acyl	amino acid	SH	F	S-cyclopropyl
acyl	amino acid	SH	F	F
acyl	amino acid	SH	F	Cl
acyl	amino acid	SH	F	Br
acyl	amino acid	SH	F	$-\frac{DI}{I}$
H	acyl	SH	F	H
H	acyl	SH	F	NH ₂
H	acyl	SH	F	NH-cyclopropyl
H	acyl	SH	F	NH-methyl
H	acyl	SH	$\frac{1}{F}$	NH-ethyl
H	acyl	SH	F	NH-acetyl
H	acyl	SH	F	OH OH
H	acyl	SH	F	OMe
H	acyl	SH	F	OEt
H	acyl	SH	F	O-cyclopropyl
H	acyl	SH	F	O-acetyl
H	acyl	SH	F	SH
H	acyl	SH	F	SMe
H	acyl	SH	F	SEt
H		SH	F	
H	acyl_	SH	$\frac{F}{F}$	S-cyclopropyl F
H			$\frac{F}{F}$	
H	acyl	SH	F	Cl
Н	acyl	SH		Br
	acyl	SH	F	I
H	amino acid	SH	F	H
H	amino acid	SH	F	NH ₂
H	amino acid	SH	F	NH-cyclopropyl
H	amino acid	SH	F	NH-methyl
H	amino acid	SH	F	NH-ethyl
H	amino acid	SH	F	NH-acetyl
H	amino acid	SH	F	OH
H	amino acid	SH	F	OMe
H	amino acid	SH	F	OEt

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
H	amino acid	SH	F	O-cyclopropyl
H	amino acid	SH	F	O-acetyl
H	amino acid	SH	F	SH
H	amino acid	SH	F	SMe
H	amino acid	SH	F	SEt
H	amino acid	SH	F	S-cyclopropyl
H	amino acid	SH	F	F
H	amino acid	SH	F	Cl
H	amino acid	SH	F	Br
H	amino acid	SH	F	I
amino acid	amino acid	SH	F	H
amino acid	amino acid	SH	F	NH ₂
amino acid	amino acid	SH	F	NH-cyclopropyl
amino acid	amino acid	SH	F	NH-methyl
amino acid	amino acid	SH	F	NH-ethyl
amino acid	amino acid	SH	F	NH-acetyl
amino acid	amino acid	SH	F	OH
amino acid	amino acid	SH	F	OMe
amino acid	amino acid	SH	F	OEt
amino acid	amino acid	SH	F	O-cyclopropyl
amino acid	amino acid	SH	F	O-acetyl
amino acid	amino acid	SH	F	SH
amino acid	amino acid	SH	F	SMe
amino acid	amino acid	SH	F	SEt
amino acid	amino acid	SH	F	S-cyclopropyl
amino acid	amino acid	SH	F	F
amino acid	amino acid	SH	F	Cl
amino acid	amino acid	SH	F	Br
amino acid	amino acid	SH	F	I
amino acid	H	SH	F	H
amino acid	H	SH	F	NH ₂
amino acid	H	SH	F	NH-cyclopropyl
amino acid	H	SH	F	NH-methyl
amino acid	H	SH	F	NH-ethyl
amino acid	H	SH	F	NH-acetyl
amino acid	H	SH	F	OH
amino acid	H	SH	F	OMe
amino acid	H	SH	F	OEt
amino acid	Н	SH	F	O-cyclopropyl
amino acid	H	SH	F	O-acetyl
amino acid	H	SH	F	SH
amino acid	Н	SH	F	SMe
amino acid	H	SH	F	SEt
amino acid	Н	SH	F	S-cyclopropyl
amino acid	Н	SH	F	F
amino acid	H	SH	F	Cl
amino acid	H	SH	F	Br

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	Н	SH	F	I
amino acid	acyl	SH	F	H
amino acid	acyl	SH	F	NH ₂
amino acid	acyl	SH	F	NH-cyclopropyl
amino acid	acyl	SH	F	NH-methyl
amino acid	acyl	SH	F	NH-ethyl
amino acid	acyl	SH	F	NH-acetyl
amino acid	acyl	SH	F	OH
amino acid	acyl	SH	F	OMe
amino acid	acyl	SH	F	OEt
amino acid	acyl	SH	F	O-cyclopropyl
amino acid	acyl	SH	F	O-acetyl
amino acid	acyl	SH	F	SH
amino acid	acyl	SH	F	SMe
amino acid	acyl	SH	F	SEt
amino acid	acyl	SH	F	S-cyclopropyl
amino acid	acyl	SH	F	F
amino acid	acyl	SH	F	Cl
amino acid	acyl	SH	F	Br
amino acid	acyl	SH	F	I
acyl	Н	OH	F	H
acyl	H	OH	F	NH ₂
acyl	H	OH	F	NH-cyclopropyl
acyl	H	OH	F	NH-methyl
acyl	H	OH	F	NH-ethyl
acyl	H	OH	F	NH-acetyl
acyl	H	OH	F	OH
acyl	H	OH	F	OMe
acyl	H	OH	F	OEt
acyl	H	OH	F	O-cyclopropyl
acyl	H	OH	F	O-acetyl
acyl	H	OH	F	SH
acyl	H	OH	F	SMe
acyl	H	OH	F	SEt
acyl	H	OH	F	S-cyclopropyl
acyl	H	OH	F	F
acyl	H	OH	F	Cl
acyl	H	OH	F	Br
acyl	H	OH	F	I
acyl	acyl	OH	F	H
acyl	acyl	OH	F	NH ₂
acyl	+	OH	F	
<u> </u>	acyl			NH-cyclopropyl
acyl	acyl	OH	F	NH-methyl
acyl	acyl	OH	F	NH-ethyl
acyl	acyl	OH	F	NH-acetyl
acyl	acyl	OH	F	OH
acyl	acyl	OH	F	OMe

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	acyl	OH	F	OEt
acyl	acyl	OH	F	O-cyclopropyl
acyl	acyl	OH	F	O-acetyl
acyl	acyl	OH	F	SH
acyl	acyl	OH	F	SMe
acyl	acyl	OH	F	SEt
acyl	acyl	OH	F	S-cyclopropyl
acyl	acyl	OH	F	F
acyl	acyl	OH	F	Cl
acyl	acyl	OH	F	Br
acyl	acyl	OH	F	Ī
acyl	amino acid	OH	F	H
acyl	amino acid	OH	F	NH ₂
acyl	amino acid	OH	F	NH-cyclopropyl
acyl	amino acid	ОН	F	NH-methyl
acyl	amino acid	OH	F	NH-ethyl
acyl	amino acid	ОН	F	NH-acetyl
acyl	amino acid	OH	F	OH
acyl	amino acid	OH	F	OMe
acyl	amino acid	OH	F	OEt
acyl	amino acid	OH	F	O-cyclopropyl
acyl	amino acid	OH	F	O-acetyl
acyl	amino acid	OH	F	SH
acyl	amino acid	OH	F	SMe
acyl	amino acid	OH	F	SEt
acyl	amino acid	OH	F	S-cyclopropyl
acyl	amino acid	OH	F	F
acyl	amino acid	OH	F	Cl
acyl	amino acid	OH	F	Br
acyl	amino acid	OH	F	I
H	acyl	ОН	F	H
Н	acyl	ОН	F	NH ₂
Н	acyl	OH	F	NH-cyclopropyl
H	acyl	OH	F	NH-methyl
H	acyl	OH	F	NH-ethyl
H	acyl	OH	F	NH-acetyl
H	acyl	OH	F	OH
H	acyl	OH	F	OMe
H	acyl	ОН	F	OEt
H	acyl	OH	F	O-cyclopropyl
H	acyl	OH	F	O-acetyl
H	acyl	OH	F	SH
H	acyl	OH	F	SMe
H	acyl	OH	F	SEt
Н	acyl	OH	F	S-cyclopropyl
H	acyl	ОН	F	F
H	acyl	OH	F	Cl

R ²	\mathbb{R}^3	X1	X ²	Y
H	acyl	OH	F	Br
Н	acyl	OH	F	I
Н	amino acid	OH	F	Н
H	amino acid	ОН	F	NH ₂
H	amino acid	OH	F	NH-cyclopropyl
H	amino acid	OH	F	NH-methyl
H	amino acid	OH	F	NH-ethyl
Н	amino acid	ОН	F	NH-acetyl
H	amino acid	ОН	F	ОН
H	amino acid	ОН	F	OMe
H	amino acid	OH	F	OEt
H	amino acid	OH	F	O-cyclopropyl
Н	amino acid	ОН	F	O-acetyl
Η	amino acid	OH	F	SH
H	amino acid	OH	F	SMe
Н	amino acid	OH	F	SEt
H	amino acid	ОН	F	S-cyclopropyl
H	amino acid	OH	F	F
H	amino acid	OH	F	Cl
H	amino acid	OH	F	Br
Н	amino acid	OH	F	I
amino acid	amino acid	OH	F	H
amino acid	amino acid	OH	F	NH ₂
amino acid	amino acid	OH	F	NH-cyclopropyl
amino acid	amino acid	OH	F	NH-methyl
amino acid	amino acid	OH	F	NH-ethyl
amino acid	amino acid	ОН	F	NH-acetyl
amino acid	amino acid	OH	F	OH
amino acid	amino acid	OH	F	OMe
amino acid	amino acid	OH	F	OEt
amino acid	amino acid	OH	F	O-cyclopropyl
amino acid	amino acid	OH	F	O-acetyl
amino acid	amino acid	OH	F	SH
amino acid	amino acid	ОН	F	SMe
amino acid	amino acid	OH	F	SEt
amino acid	amino acid	OH	F	S-cyclopropyl
amino acid	amino acid	ОН	F	F
amino acid	amino acid	OH	F	Cl
amino acid	amino acid	ОН	F	Br
amino acid	amino acid	OH	F	<u>I</u>
amino acid	H	OH	F	H
amino acid	H	OH	F	NH ₂
amino acid	H	OH	F	NH-cyclopropyl
amino acid	H	OH	F	NH-methyl
amino acid	H	OH	F	NH-ethyl
amino acid	Н	OH	F	NH-acetyl
amino acid	H	ОН	F	OH

R ²	R ³	X ¹	X ²	Y
amino acid	H	OH	F	OMe
amino acid	H	OH	F	OEt
amino acid	H	OH	F	O-cyclopropyl
amino acid	H	OH	F	O-acetyl
amino acid	H	OH	F	SH
amino acid	H	OH	F	SMe
amino acid	Н	OH	F	SEt
amino acid	H	OH	F	S-cyclopropyl
amino acid	H	OH	F	F
amino acid	Н	OH	F	Cl
amino acid	Н	OH	F	Br
amino acid	H	OH	F	Ī
amino acid	acyl	OH	F	 1
amino acid	acyl	OH	F	NH ₂
amino acid	acyl	OH	F	NH-cyclopropyl
amino acid	acyl	OH	F	NH-methyl
amino acid	acyl	OH	F	NH-ethyl
amino acid	acyl	ОН	F	NH-acetyl
amino acid	acyl	OH	F	ОН
amino acid	acyl	OH	F	OMe
amino acid	acyl	OH	F	OEt
amino acid	acyl	OH	F	O-cyclopropyl
amino acid	acyl	OH	F	O-acetyl
amino acid	acyl	ОН	F	SH
amino acid	acyl	OH	F	SMe
amino acid	acyl	ОН	F	SEt
amino acid	acyl	OH	F	S-cyclopropyl
amino acid	acyl	OH	F	F
amino acid	acyl	ОН	F	Cl
amino acid	acyl	OH	F	Br
acyl	H	CH ₃	NH ₂	Н
acyl	H	CH ₃	NH ₂	NH ₂
acyl	H	CH ₃	NH ₂	NH-cyclopropyl
acyl	H	CH ₃	NH ₂	NH-methyl
acyl	H	CH ₃	NH ₂	NH-ethyl
acyl	H	CH ₃	NH ₂	NH-acetyl
acyl	H	CH ₃	NH ₂	OH
acyl	Н	CH ₃	NH ₂	OMe
acyl	Н	CH ₃	NH ₂	OEt
acyl	H	CH ₃	NH ₂	O-cyclopropyl
acyl	Н	CH ₃	NH ₂	O-acetyl
acyl	Н	CH ₃	NH ₂	SH
acyl	H	CH ₃	NH ₂	SMe
acyl	H	CH ₃	NH ₂	SEt
acyl	H	CH ₃	NH ₂	S-cyclopropyl
acyl	Н	CH ₃	NH ₂	F
acyl	Н	CH ₃	NH ₂	CI

\mathbb{R}^2	\mathbb{R}^3	X	X ²	Y
acyl	Н	CH ₃	NH ₂	Br
acyl	Н	CH ₃	NH ₂	I
acyl	acyl	CH ₃	NH ₂	Н
acyl	acyl	CH ₃	NH ₂	NH ₂
acyl	acyl	CH ₃	NH ₂	NH-cyclopropyl
acyl	acyl	CH ₃	NH ₂	NH-methyl
acyl	acyl	CH ₃	NH ₂	NH-ethyl
acyl	acyl	CH ₃	NH ₂	NH-acetyl
acyl	acyl	CH ₃	NH ₂	OH
acyl	acyl	CH ₃	NH ₂	OMe
acyl	acyl	CH ₃	NH ₂	OEt
acyl	acyl	CH ₃	NH ₂	O-cyclopropyl
acyl	acyl	CH ₃	NH ₂	O-acetyl
acyl	acyl	CH ₃	NH ₂	SH
acyl	acyl	CH ₃	NH ₂	SMe
acyl	acyl	CH ₃	NH ₂	SEt
acyl	acyl	CH ₃	NH ₂	S-cyclopropyl
acyl	acyl	CH ₃	NH ₂	F
acyl	acyl	CH ₃	NH ₂	Cl
acyl	acyl	CH ₃	NH ₂	Br
acyl	acyl	CH ₃	NH ₂	I
acyl	amino acid	CH ₃	NH ₂	H
acyl	amino acid	CH ₃	NH ₂	NH ₂
acyl	amino acid	CH ₃	NH ₂	NH-cyclopropyl
acyl	amino acid	CH ₃	NH ₂	NH-methyl
acyl	amino acid	CH ₃	NH ₂	NH-ethyl
acyl	amino acid	CH ₃	NH ₂	NH-acetyl
acyl	amino acid	CH ₃	NH ₂	OH
acyl	amino acid	CH ₃	NH ₂	OMe
acyl	amino acid	CH ₃	NH ₂	OEt
acyl	amino acid	CH ₃	NH ₂	O-cyclopropyl
acyl	amino acid	CH ₃	NH ₂	O-acetyl
acyl	amino acid	CH₃	NH ₂	SH
acyl	amino acid	CH ₃	NH ₂	SMe
acyl_	amino acid	CH ₃	NH ₂	SEt
acyl	amino acid	CH ₃	NH ₂	S-cyclopropyl
acyl	amino acid	CH ₃	NH ₂	F
acyl	amino acid	CH ₃	NH ₂	Cl
acyl	amino acid	CH ₃	NH ₂	Br
acyl	amino acid	CH ₃	NH ₂	1
Н	acyl	CH ₃	NH ₂	H
Н	acyl	CH ₃	NH ₂	NH ₂
Н	acyl	CH ₃	NH ₂	NH-cyclopropyl
H	acyl	CH ₃	NH ₂	NH-methyl
Н	acyl	CH ₃	NH ₂	NH-ethyl
Н	acyl	CH ₃	NH ₂	NH-acetyl
Н	acyl	CH ₃	NH ₂	OH

R ²	R ³	\mathbf{X}^{1}	X ²	Y
H	acyl	CH ₃	NH ₂	OMe
H	acyl	CH ₃	NH ₂	OEt
Н	acyl	CH ₃	NH ₂	O-cyclopropyl
H	acyl	CH ₃	NH ₂	O-acetyl
Н	acyl	CH ₃	NH ₂	SH
H	acyl	CH ₃	NH ₂	SMe
H	acyl	CH ₃	NH ₂	SEt
H	acyl	CH ₃	NH ₂	S-cyclopropyl
H	acyl	CH ₃	NH ₂	F
H	acyl	CH ₃	NH ₂	Cl
H	acyl	CH ₃	NH ₂	Br
H	acyl	CH ₃	NH ₂	Ī
H	amino acid	CH ₃	NH ₂	H
H	amino acid	CH ₃	NH ₂	NH ₂
H	amino acid	CH ₃	NH ₂	NH-cyclopropyl
H	amino acid	CH ₃	NH ₂	NH-methyl
H	amino acid	CH ₃	NH ₂	NH-ethyl
H	amino acid	CH ₃	NH ₂	NH-acetyl
H	amino acid	CH ₃	NH ₂	ОН
H	amino acid	CH ₃	NH ₂	OMe
H	amino acid	CH ₃	NH ₂	OEt
H	amino acid	CH ₃	NH ₂	O-cyclopropyl
H	amino acid	CH ₃	NH ₂	O-acetyl
H	amino acid	CH ₃	NH ₂	SH
H	amino acid	CH ₃	NH ₂	SMe
H	amino acid	CH ₃	NH ₂	SEt
H	amino acid	CH ₃	NH ₂	S-cyclopropyl
Н	amino acid	CH ₃	NH ₂	F
Н	amino acid	CH ₃	NH ₂	Cl
H	amino acid	CH ₃	NH ₂	Br
Н	amino acid	CH ₃	NH ₂	I
amino acid	amino acid	CH ₃	NH ₂	H
amino acid	amino acid	CH ₃	NH ₂	NH ₂
amino acid	amino acid	CH ₃	NH ₂	NH-cyclopropyl
amino acid	amino acid	CH ₃	NH ₂	NH-methyl
amino acid	amino acid	CH ₃	NH ₂	NH-ethyl
amino acid	amino acid	CH ₃	NH ₂	NH-acetyl
amino acid	amino acid	CH ₃	NH ₂	ОН
amino acid	amino acid	CH ₃	NH ₂	OMe
amino acid	amino acid	CH ₃	NH ₂	OEt
amino acid	amino acid	CH ₃	NH ₂	O-cyclopropyl
amino acid	amino acid	CH ₃	NH ₂	O-acetyl
amino acid	amino acid	CH ₃	NH ₂	SH
			NH ₂	SMe
amino acid	amino acid	CH ₃	11112	DIVIC
	amino acid amino acid	CH ₃		SEt
amino acid			NH ₂ NH ₂	

R ²	R ³	X¹	X ²	Y
amino acid	amino acid	CH ₃	NH ₂	Cl
amino acid	amino acid	CH ₃	NH ₂	Br
amino acid	amino acid	CH ₃	NH ₂	I
amino acid	Н	CH ₃	NH ₂	H
amino acid	H	CH ₃	NH ₂	NH ₂
amino acid	H	CH ₃	NH ₂	NH-cyclopropyl
amino acid	Н	CH ₃	NH ₂	NH-methyl
amino acid	Н	CH ₃	NH ₂	NH-ethyl
amino acid	Н	CH ₃	NH ₂	NH-acetyl
amino acid	H	CH ₃	NH ₂	OH
amino acid	Н	CH ₃	NH ₂	OMe
amino acid	H	CH ₃	NH ₂	OEt
amino acid	Н	CH ₃	NH ₂	O-cyclopropyl
amino acid	Н	CH ₃	NH ₂	O-acetyl
amino acid	Н	CH ₃	NH ₂	SH
amino acid	Н	CH ₃	NH ₂	SMe
amino acid	Н	CH ₃	NH ₂	SEt
amino acid	H	CH ₃	NH ₂	S-cyclopropyl
amino acid	H	CH ₃	NH ₂	F
amino acid	H	CH ₃	NH ₂	Cl
amino acid	Н	CH ₃	NH ₂	Br
amino acid	Н	CH ₃	NH ₂	I
amino acid	acyl	CH ₃	NH ₂	Н
amino acid	acyl	CH ₃	NH ₂	NH ₂
amino acid	acyl	CH ₃	NH ₂	NH-cyclopropyl
amino acid	acyl	CH ₃	NH ₂	NH-methyl
amino acid	acyl	CH ₃	NH ₂	NH-ethyl
amino acid	acyl	CH ₃	NH ₂	NH-acetyl
amino acid	acyl	CH ₃	NH ₂	OH
amino acid	acyl	CH ₃	NH ₂	ОМе
amino acid	acyl	CH ₃	NH ₂	OEt
amino acid	acyl	CH ₃	NH ₂	O-cyclopropyl
amino acid	acyl	CH ₃	NH ₂	O-acetyl
amino acid	acyl	CH ₃	NH ₂	SH
amino acid	acyl	CH ₃	NH ₂	SMe
amino acid	acyl	CH ₃	NH ₂	SEt
amino acid	acyl	CH ₃	NH ₂	S-cyclopropyl
amino acid	acyl	CH ₃	NH ₂	F
amino acid	acyl	CH ₃	NH ₂	Cl
amino acid	acyl	CH ₃	NH ₂	Br
amino acid	acyl	CH ₃	NH ₂	I
acyl	H	CF ₃	NH ₂	H
acyl	H	CF ₃	NH ₂	NH ₂
acyl	H	CF ₃	NH ₂	NH-cyclopropyl
acyl	H	CF ₃	NH ₂	NH-methyl
acyl	H	CF ₃	NH ₂	NH-ethyl
acyl	H	CF ₃	NH ₂	NH-acetyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	Н	CF ₃	NH ₂	OH
acyl	Н	CF ₃	NH ₂	OMe
acyl	Н	CF ₃	NH ₂	OEt
acyl	H	CF ₃	NH ₂	O-cyclopropyl
acyl	Н	CF ₃	NH ₂	O-acetyl
acyl	H	CF ₃	NH ₂	SH
acyl	Н	CF ₃	NH ₂	SMe
acyl	H	CF ₃	NH ₂	SEt
acyl	H	CF ₃	NH ₂	S-cyclopropyl
acyl	Н	CF ₃	NH ₂	F
acyl	H	CF ₃	NH ₂	Cl
acyl	Н	CF ₃	NH ₂	Br
acyl	Н	CF ₃	NH ₂	I
acyl	acyl	CF ₃	NH ₂	H
acyl	acyl	CF ₃	NH ₂	NH ₂
acyl	acyl	CF ₃	NH ₂	NH-cyclopropyl
acyl	acyl	CF ₃	NH ₂	NH-methyl
acyl	acyl	CF ₃	NH ₂	NH-ethyl
acyl	acyl	CF ₃	NH ₂	NH-acetyl
acyl	acyl	CF ₃	NH ₂	OH
acyl	acyl	CF ₃	NH ₂	OMe
acyl	acyl	CF ₃	NH ₂	OEt
acyl	acyl	CF ₃	NH ₂	O-cyclopropyl
acyl	acyl	CF ₃	NH ₂	O-acetyl
acyl	acyl	CF ₃	NH ₂	SH
acyl	acyl	CF ₃	NH ₂	SMe
acyl	acyl	CF ₃	NH ₂	SEt
acyl	acyl	CF ₃	NH ₂	S-cyclopropyl
acyl	acyl	CF ₃	NH ₂	F
acyl	acyl	CF ₃	NH ₂	Cl
acyl	acyl	CF ₃	NH ₂	Br
acyl	acyl	CF ₃	NH ₂	I
acyl	amino acid	CF ₃	NH ₂	H
acyl	amino acid	CF ₃	NH ₂	NH ₂
acyl	amino acid	CF ₃	NH ₂	NH-cyclopropyl
acyl	amino acid	CF ₃	NH ₂	NH-methyl
acyl	amino acid	CF ₃	NH ₂	NH-ethyl
acyl	amino acid	CF ₃	NH ₂	NH-acetyl
acyl	amino acid	CF ₃	NH ₂	ОН
acyl	amino acid	CF ₃	NH ₂	OMe
acyl	amino acid	CF ₃	NH ₂	OEt
acyl	amino acid	CF ₃	NH ₂	O-cyclopropyl
acyl	amino acid	CF ₃	NH ₂	O-acetyl
acyl	amino acid	CF ₃	NH ₂	SH
acyl	amino acid	CF ₃	NH ₂	SMe
acyl	amino acid	CF ₃	NH ₂	SEt
acyl	amino acid	CF ₃	NH ₂	S-cyclopropyl
uo y i		L Cr3	11112	2-cyclopropyi

R ²	\mathbb{R}^3	X ¹	X ²	Y
acyl	amino acid	CF ₃	NH ₂	F
acyl	amino acid	CF ₃	NH ₂	Cl
acyl	amino acid	CF ₃	NH ₂	Br
acyl	amino acid	CF ₃	NH ₂	I
H	acyl	CF ₃	NH ₂	Н
H	acyl	CF ₃	NH ₂	NH ₂
H	acyl	CF ₃	NH ₂	NH-cyclopropyl
H	acyl	CF ₃	NH ₂	NH-methyl
H	acyl	CF ₃	NH ₂	NH-ethyl
H	acyl	CF ₃	NH ₂	NH-acetyl
H	acyl	CF ₃	NH ₂	ОН
H	acyl	CF ₃	NH ₂	OMe
H	acyl	CF ₃	NH ₂	OEt
Н	acyl	CF ₃	NH ₂	O-cyclopropyl
Н	acyl	CF ₃	NH ₂	O-acetyl
H	acyl	CF ₃	NH ₂	SH
H	acyl	CF ₃	NH ₂	SMe
H_	acyl	CF ₃	NH ₂	SEt
Н	acyl	CF ₃	NH ₂	S-cyclopropyl
H	acyl	CF ₃	NH ₂	F
H	acyl	CF ₃	NH ₂	Cl
H	acyl	CF ₃	NH ₂	Br
H	acyl	CF ₃	NH ₂	I
H	amino acid	CF ₃	NH ₂	Н
H	amino acid	CF ₃	NH ₂	NH ₂
Н	amino acid	CF ₃	NH ₂	NH-cyclopropyl
H	amino acid	CF ₃	NH ₂	NH-methyl
H	amino acid	CF ₃	NH ₂	NH-ethyl
H	amino acid	CF ₃	NH ₂	NH-acetyl
H	amino acid	CF ₃	NH ₂	OH
H	amino acid	CF ₃	NH ₂	OMe
H	amino acid	CF ₃	NH ₂	OEt
H	amino acid	CF ₃	NH ₂	O-cyclopropyl
H	amino acid	CF ₃	NH ₂	O-acetyl
H	amino acid	CF ₃	NH ₂	SH
H	amino acid	CF ₃	NH ₂	SMe
H	amino acid	CF ₃	NH ₂	SEt
H	amino acid	CF ₃	NH ₂	S-cyclopropyl
H	amino acid	CF ₃	NH ₂	F
H	amino acid	CF ₃	NH ₂	Cl
H	amino acid	CF ₃	NH ₂	Br
H	amino acid	CF ₃	NH ₂	I
amino acid	amino acid	CF ₃	NH ₂	H
amino acid	amino acid	CF ₃	NH ₂	NH ₂
amino acid	amino acid	CF ₃	NH ₂	NH-cyclopropyl
amino acid	amino acid	CF ₃	NH ₂	NH-methyl
amino acid	amino acid	CF ₃	NH ₂	NH-ethyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	amino acid	CF ₃	NH ₂	NH-acetyl
amino acid	amino acid	CF ₃	NH ₂	OH
amino acid	amino acid	CF ₃	NH ₂	OMe
amino acid	amino acid	CF ₃	NH ₂	OEt
amino acid	amino acid	CF ₃	NH ₂	O-cyclopropyl
amino acid	amino acid	CF ₃	NH ₂	O-acetyl
amino acid	amino acid	CF ₃	NH ₂	SH
amino acid	amino acid	CF ₃	NH ₂	SMe
amino acid	amino acid	CF ₃	NH ₂	SEt
amino acid	amino acid	CF ₃	NH ₂	S-cyclopropyl
amino acid	amino acid	CF ₃	NH ₂	F
amino acid	amino acid	CF ₃	NH ₂	Cl
amino acid	amino acid	CF_3	NH ₂	Br
amino acid	amino acid	CF ₃	NH ₂	I
amino acid	Н	CF ₃	NH ₂	H
amino acid	H	CF ₃	NH ₂	NH ₂
amino acid	H	CF ₃	NH ₂	NH-cyclopropyl
amino acid	H	CF ₃	NH ₂	NH-methyl
amino acid	H	CF ₃	NH ₂	NH-ethyl
amino acid	H	CF ₃	NH ₂	NH-acetyl
amino acid	Н	CF ₃	NH ₂	OH
amino acid	Н	CF ₃	NH ₂	OMe
amino acid	H	CF ₃	NH ₂	OEt
amino acid	H	CF ₃	NH ₂	O-cyclopropyl
amino acid	Н	CF ₃	NH ₂	O-acetyl
amino acid	H	CF ₃	NH ₂	SH
amino acid	H	CF ₃	NH ₂	SMe
amino acid	H	CF ₃	NH ₂	SEt
amino acid	H	CF ₃	NH ₂	S-cyclopropyl
amino acid	H	CF ₃	'NH ₂	F
amino acid	H	CF ₃	NH ₂	Cl
amino acid	H	CF ₃	NH ₂	Br
amino acid	H	CF ₃	NH ₂	I
amino acid	acyl	CF ₃	NH ₂	H
amino acid	acyl	CF ₃	NH ₂	NH ₂
amino acid	acyl	CF ₃	NH ₂	NH-cyclopropyl
amino acid	acyl	CF ₃	NH ₂	NH-methyl
amino acid	acyl	CF ₃	NH ₂	NH-ethyl
amino acid	acyl	CF ₃	NH ₂	NH-acetyl
amino acid	acyl	CF ₃	NH ₂	OH
amino acid	acyl	CF ₃	NH ₂	OMe
amino acid	acyl	CF ₃	NH ₂	OEt
amino acid	acyl	CF ₃	NH ₂	O-cyclopropyl
amino acid	acyl	CF ₃	NH ₂	O-acetyl
amino acid	acyl	CF ₃	NH ₂	SH
amino acid	acyl	CF ₃	NH ₂	SMe
amino acid	acyl	CF ₃	NH ₂	SEt
	1 20) 1		1 1112	Torre

R ²	R ³	X^1	X ²	Y
amino acid	acyl	CF ₃	NH ₂	S-cyclopropyl
amino acid	acyl	CF ₃	NH ₂	F
amino acid	acyl	CF ₃	NH ₂	Cl
amino acid	acyl	CF ₃	NH ₂	Br
amino acid	acyl	CF ₃	NH ₂	I
acyl	H	Br	NH ₂	H
acyl	H	Br	NH ₂	NH ₂
acyl	H	Br	NH ₂	NH-cyclopropyl
acyl	H	Br	NH ₂	NH-methyl
acyl	H	Br	NH ₂	NH-ethyl
acyl	H	Br	NH ₂	NH-acetyl
acyl	H	Br	NH ₂	OH
acyl	H	Br	NH ₂	OMe
acyl	H	Br	NH ₂	OEt
acyl	H	Br Br	NH ₂	O-cyclopropyl
acyl	H	Br	NH ₂	O-acetyl
acyl	H	Br	NH ₂	SH
	H	Br	NH ₂	SMe
acyl	H	Br	NH ₂	SEt
acyl acyl	H	Br	NH ₂	
	H	Br	NH ₂	S-cyclopropyl F
acyl acyl	H	Br	NH ₂	Cl
	H	Br	NH ₂	Br
acyl	H	Br	NH ₂	I
acyl acyl		Br	NH ₂	
acyl	acyl	Br	NH ₂	NH ₂
acyl	acyl acyl	Br	NH ₂	
acyl		Br	NH ₂	NH-cyclopropyl NH-methyl
	acyl acyl	Br	NH ₂	NH-ethyl
acyl		Br	NH ₂	NH-acetyl
acyl	acyl	Br	NH ₂	OH
	acyl	Br	NH ₂	OMe
acyl	acyl	Br	NH ₂	OEt
acyl acyl	acyl	Br	NH ₂	O-cyclopropyl
acyl	acyl acyl	Br	NH ₂	O-acetyl
acyl	acyl	Br	NH ₂	SH
acyl		Br		SMe
	acyl		NH ₂	SEt
acyl	acyl	Br		
acyl	acyl	Br	NH ₂	S-cyclopropyl
acyl	acyl	Br	NH ₂	F
acyl	acyl	Br	NH ₂	Cl
acyl	acyl	Br	NH ₂	Br
acyl	acyl	Br	NH ₂	I
acyl	amino acid	Br	NH ₂	H
acyl	amino acid	Br	NH ₂	NH ₂
acyl	amino acid	Br	NH ₂	NH-cyclopropyl
acyl	amino acid	Br	NH ₂	NH-methyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	amino acid	Br	NH ₂	NH-ethyl
acyl	amino acid	Br	NH ₂	NH-acetyl
acyl	amino acid	Br	NH ₂	ОН
acyl	amino acid	Br	NH ₂	OMe
acyl	amino acid	Br	NH ₂	OEt
acyl	amino acid	Br	NH ₂	O-cyclopropyl
acyl	amino acid	Br	NH ₂	O-acetyl
acyl	amino acid	Br	NH ₂	SH
acyl	amino acid	Br	NH ₂	SMe
acyl	amino acid	Br	NH ₂	SEt
acyl	amino acid	Br	NH ₂	S-cyclopropyl
acyl	amino acid	Br	NH ₂	F
acyl	amino acid	Br	NH ₂	Cl
acyl	amino acid	Br	NH ₂	Br
acyl	amino acid	Br	NH ₂	I
H	acyl	Br	NH ₂	H
H	acyl	Br	NH ₂	NH ₂
H	acyl	Br	NH ₂	NH-cyclopropyl
Н	acyl	Br	NH ₂	NH-methyl
Н	acyl	Br	NH ₂	NH-ethyl
Н	acyl	Br	NH ₂	NH-acetyl
Н	acyl	Br	NH ₂	OH
H	acyl	Br	NH ₂	OMe
H	acyl	Br	NH ₂	OEt
H	acyl	Br	NH ₂	O-cyclopropyl
Н	acyl	Br	NH ₂	O-acetyl
H	acyl	Br	NH ₂	SH
Н	acyl	Br	NH ₂	SMe
H	acyl	Br	NH ₂	SEt
H	acyl	Br	NH ₂	S-cyclopropyl
H	acyl	Br	NH_2	F
Н	acyl	Br	NH ₂	Cl
H	acyl	Br	NH ₂	Br
H	acyl	Br	NH ₂	Ī
H	amino acid	Br	NH ₂	Н
Н	amino acid	Br	NH ₂	NH ₂
H	amino acid	Br	NH ₂	NH-cyclopropyl
H	amino acid	Br	NH ₂	NH-methyl
H	amino acid	Br	NH ₂	NH-ethyl
H	amino acid	Br	NH ₂	NH-acetyl
H	amino acid	Br	NH ₂	OH
H	amino acid	Br	NH ₂	OMe
H	amino acid	Br	NH ₂	OEt
H	amino acid	Br	NH ₂	O-cyclopropyl
H	amino acid	Br	NH ₂	O-acetyl
H	amino acid	Br	NH ₂	SH
H	amino acid	Br	NH ₂	SMe
	ammo acid	l DI	111712	SIVIE

R ²	R ³	X ¹	X ²	Y
H	amino acid	Br	NH ₂	SEt
H	amino acid	Br	NH ₂	S-cyclopropyl
Н	amino acid	Br	NH ₂	F
H	amino acid	Br	NH ₂	CI
H	amino acid	Br	NH ₂	Br
H	amino acid	Br	NH ₂	I
amino acid	amino acid	Br		H
amino acid	amino acid	Br	NH ₂	
amino acid	amino acid		NH ₂	NH ₂
amino acid	amino acid	Br Br	NH ₂	NH-cyclopropyl
amino acid			NH ₂	NH-methyl
amino acid	amino acid	Br	NH ₂	NH-ethyl
	amino acid	Br	NH ₂	NH-acetyl
amino acid	amino acid	Br	NH ₂	OH
amino acid	amino acid	Br	NH ₂	OMe
amino acid	amino acid	Br	NH ₂	OEt
amino acid	amino acid	Br	NH ₂	O-cyclopropyl
amino acid	amino acid	Br	NH ₂	O-acetyl
amino acid	amino acid	Br	NH ₂	SH
amino acid	amino acid	Br	NH ₂	SMe
amino acid	amino acid	Br	NH ₂	SEt
amino acid	amino acid	Br	NH ₂	S-cyclopropyl
amino acid	amino acid	Br	NH ₂	F
amino acid	amino acid	Br	NH ₂	Cl
amino acid	amino acid	Br	NH ₂	Br
amino acid	amino acid	Br	NH ₂	I
amino acid	H	Br	NH ₂	H
amino acid	H	Br	NH ₂	NH ₂
amino acid	H	Br	NH ₂	NH-cyclopropyl
amino acid	H	Br	NH ₂	NH-methyl
amino acid	H	Br	NH ₂	NH-ethyl
amino acid	H	Br	NH ₂	NH-acetyl
amino acid	H	Br	NH ₂	ОН
amino acid	H	Br	NH ₂	OMe
amino acid	H	Br	NH ₂	OEt
amino acid	H	Br	NH ₂	O-cyclopropyl
amino acid	Н	Br	NH ₂	O-acetyl
amino acid	H	Br	NH ₂	SH
amino acid	Н	Br	NH ₂	SMe
amino acid	Н	Br	NH ₂	SEt
amino acid	H	Br	NH ₂	S-cyclopropyl
amino acid	Н	Br	NH ₂	F
amino acid	H	Br	NH ₂	CI
amino acid	H	Br	NH ₂	Br
amino acid	H	Br	NH ₂	I
amino acid	acyl	Br	NH ₂	H
amino acid	acyl	Br	NH ₂	NH ₂
amino acid	acyl	Br		
annino aciu	l acyl	DI	NH ₂	NH-cyclopropyl

R ²	R ³	\mathbf{X}^{1}	X ²	Y
amino acid	acyl	Br	NH ₂	NH-methyl
amino acid	acyl	Br	NH ₂	NH-ethyl
amino acid	acyl	Br	NH ₂	NH-acetyl
amino acid	acyl	Br	NH ₂	OH
amino acid	acyl	Br	NH ₂	OMe
amino acid	acyl	Br	NH ₂	OEt
amino acid	acyl	Br	NH ₂	O-cyclopropyl
amino acid	acyl	Br	NH ₂	O-acetyl
amino acid	acyl	Br	NH ₂	SH
amino acid	acyl	Br	NH ₂	SMe
amino acid	acyl	Br	NH ₂	SEt
amino acid	acyl	Br	NH ₂	S-cyclopropyl
amino acid	acyl	Br	NH ₂	F
amino acid	acyl	Br	NH ₂	Cl
amino acid	acyl	Br	NH ₂	Br
amino acid	acyl	Br	NH ₂	I
acyl	H	Cl	NH ₂	H
acyl	H	Cl	NH ₂	NH ₂
acyl	H	Cl	NH ₂	NH-cyclopropyl
acyl	H	Cl	NH ₂	NH-methyl
acyl	Н	Cl	NH ₂	NH-ethyl
acyl	H	Cl	NH ₂	NH-acetyl
acyl	H	Cl	NH ₂	OH
acyl	H	Ci	NH ₂	OMe
acyl	H	Cl	NH ₂	OEt
acyl	H	Cl	NH ₂	O-cyclopropyl
acyl	H	Cl	NH ₂	O-acetyl
acyl	H	Cl	NH ₂	SH
acyl	Н	Cl	NH ₂	SMe
acyl	Н	Cl	NH ₂	SEt
acyl	Н	CI	NH ₂	S-cyclopropyl
acyl	H	CI	NH ₂	F
acyl	H	Cl	NH ₂	Ci
acyl	Н	Cl	NH ₂	Br
acyl	Н	Cl	NH ₂	I
acyl	acyl	Cl	NH ₂	H
acyl	acyl	Cl	NH ₂	NH ₂
acyl	acyl	Cl	NH ₂	NH-cyclopropyl
acyl	acyl	Cl	NH ₂	NH-methyl
acyl	acyl	Cl	NH ₂	NH-ethyl
acyl	acyl	Cl	NH ₂	NH-acetyl
acyl	acyl	Cl	NH ₂	OH
acyl	acyl	Cl	NH ₂	OMe
acyl	acyl	Cl	NH ₂	OEt
acyl	acyl	Cl	NH ₂	O-cyclopropyl
acyl	acyl	Cl	NH ₂	O-acetyl
acyl	acyl	Cl	NH ₂	SH
	_ acyr	101	14115	<u> </u>

\mathbb{R}^2	\mathbb{R}^3	X	X ²	Y
acyl	acyl	Cl	NH ₂	SMe
acyl	acyl	Cl	NH ₂	SEt
acyl	acyl	Cl	NH ₂	S-cyclopropyl
acyl	acyl	Cl	NH ₂	F
acyl	acyl	CI	NH ₂	CI
acyl	acyl	Ci	NH ₂	Br
acyl	acyl	Cl	NH ₂	I
acyl	amino acid	CI	NH ₂	H
acyl	amino acid	Cl	NH ₂	NH ₂
acyl	amino acid	CI	NH ₂	NH-cyclopropyl
acyl	amino acid	Cl	NH ₂	NH-methyl
acyl	amino acid	Cl	NH ₂	NH-ethyl
acyl	amino acid	Cl	NH ₂	NH-acetyl
acyl	amino acid	Cl	NH ₂	OH OH
acyl	amino acid	Cl	NH ₂	OMe
acyl	amino acid	Cl	NH ₂	OEt
acyl	amino acid	CI	NH ₂	O-cyclopropyl
acyl	amino acid	Cl	NH ₂	O-acetyl
acyl	amino acid	Cl	NH ₂	SH
acyl	amino acid	Cl	NH ₂	SMe
acyl	amino acid	Cl	NH ₂	SEt
acyl	amino acid	Cl	NH ₂	S-cyclopropyl
acyl	amino acid	Cl	NH ₂	F
acyl	amino acid	Cl	NH ₂	Cl
acyl	amino acid	Cl	NH ₂	Br
acyl	amino acid	CI	NH ₂	Ĭ
H	acyl	Cl	NH ₂	H
H	acyl	Cl	NH ₂	NH ₂
H	acyl	CI	NH ₂	NH-cyclopropyl
Н	acyl	Cl	NH ₂	NH-methyl
H	acyl	Cl	NH ₂	NH-ethyl
H	acyl	Cl	NH ₂	NH-acetyl
H	acyl	Cl	NH ₂	OH OH
H	acyl	Cl	NH ₂	OMe
H	acyl	Cl	NH ₂	OEt
H	acyl	Cl	NH ₂	O-cyclopropyl
H	acyl	Cl	NH ₂	O-cyclopropyi O-acetyl
H	acyl	Cl	NH ₂	SH
H	acyl	Cl	NH ₂	SMe
H	acyl	Cl		SEt
H		Cl	NH ₂	
Н	acyl	Cl	NH ₂	S-cyclopropyl
H	acyl		NH ₂	F
	acyl	Cl	NH ₂	Cl
H	acyl	Cl	NH ₂	Br
H	acyl	Cl	NH ₂	I
H	amino acid	Cl	NH ₂	H
H	amino acid	Cl	NH ₂	NH ₂

H H H H	amino acid amino acid amino acid amino acid	Cl Cl	NH ₂ NH ₂	NH-cyclopropyl
H H H	amino acid		NH ₂	
H H H		CI		NH-methyl
H H	amino acid	Cl	NH ₂	NH-ethyl
H		Cl	NH ₂	NH-acetyl
	amino acid	Cl	NH ₂	OH
TT	amino acid	Cl	NH ₂	OMe
H	amino acid	Cl	NH ₂	OEt
H	amino acid	Cl	NH ₂	O-cyclopropyl
H	amino acid	Cl	NH ₂	O-acetyl
H	amino acid	Cl	NH ₂	SH
Н	amino acid	Cl	NH ₂	SMe
Н	amino acid	Cl	NH ₂	SEt
H	amino acid	Cl	NH ₂	S-cyclopropyl
H	amino acid	Cl	NH ₂	F
Н	amino acid	Cl	NH ₂	Cl
Н	amino acid	Cl	NH ₂	Br
Н	amino acid	Cl	NH ₂	I
amino acid	amino acid	Cl	NH ₂	H
amino acid	amino acid	Cl	NH ₂	NH ₂
amino acid	amino acid	Cl	NH ₂	NH-cyclopropyl
amino acid	amino acid	Cl	NH ₂	NH-methyl
amino acid	amino acid	Cl	NH ₂	NH-ethyl
amino acid	amino acid	Cl	NH ₂	NH-acetyl
amino acid	amino acid	Cl	NH ₂	OH
amino acid	amino acid	Cl	NH ₂	OMe
amino acid	amino acid	Cl	NH ₂	OEt
amino acid	amino acid	Cl	NH ₂	O-cyclopropyl
amino acid	amino acid	Cl	NH ₂	O-acetyl
amino acid	amino acid	Cl	NH ₂	SH
amino acid	amino acid	Cl	NH ₂	SMe
amino acid	amino acid	Cl	NH ₂	SEt
amino acid	amino acid	CI	NH ₂	S-cyclopropyl
amino acid	amino acid	Cl	NH ₂	F
amino acid	amino acid	Cl	NH ₂	Cl
amino acid	amino acid	Cl	NH ₂	Br
amino acid	amino acid	Cl	NH ₂	I
amino acid	H	Cl	NH ₂	Н
amino-acid-	H	-Cl	NH ₂	NH ₂
amino acid	H	Cl	NH ₂	NH-cyclopropyl
amino acid	Н	Cl	NH ₂	NH-methyl
amino acid	H	Cl	NH ₂	NH-ethyl
amino acid	H	Cl	NH ₂	NH-acetyl
amino acid	Н	Cl	NH ₂	OH
amino acid	Н	Cl	NH ₂	OMe
	Н	CI	NH ₂	OEt
amino acid	H	Cl	NH ₂	O-cyclopropyl
	Н	Cl	NH ₂	O-acetyl

R ²	R ³	X ¹	X ²	Y
amino acid	H	Cl	NH ₂	SH
amino acid	H	Cl	NH ₂	SMe
amino acid	H	Cl	NH ₂	SEt
amino acid	Н	Cl	NH ₂	S-cyclopropyl
amino acid	Н	Cl	NH ₂	F
amino acid	H	Cl	NH ₂	CI
amino acid	Н	Cl	NH ₂	Br
amino acid	Н	Cl	NH ₂	Ī
amino acid	acyl	Cl	NH ₂	Н
amino acid	acyl	Cl	NH ₂	NH ₂
amino acid	acyl	Cl	NH ₂	NH-cyclopropyl
amino acid	acyl	Cl	NH ₂	NH-methyl
amino acid	acyl	Cl	NH ₂	NH-ethyl
amino acid	acyl	Cl	NH ₂	NH-acetyl
amino acid	acyl	Cl	NH ₂	OH
amino acid	acyl	Cl	NH ₂	OMe
amino acid	acyl	Cl	NH ₂	OEt
amino acid	acyl	Cl	NH ₂	O-cyclopropyl
amino acid	acyl	Cl	NH ₂	O-acetyl
amino acid	acyl	Cl	NH ₂	SH
amino acid	acyl	CI	NH ₂	SMe
amino acid	acyl	Cl	NH ₂	SEt
amino acid	acyl	CI	NH ₂	S-cyclopropyl
amino acid	acyl	Cl	NH ₂	F
amino acid	acyl	Cl	NH ₂	Cl
amino acid	acyl	Cl	NH ₂	Br
amino acid	acyl	Cl	NH ₂	I
acyl	H	F	NH ₂	Н
acyl	Н	$\overline{\mathbf{F}}$	NH ₂	NH ₂
acyl	H	F	NH ₂	NH-cyclopropyl
acyl	Н	F	NH ₂	NH-methyl
acyl	H	F	NH ₂	NH-ethyl
acyl	H	F	NH ₂	NH-acetyl
acyl	H	F	NH ₂	OH
acyl	Н	F	NH ₂	OMe
acyl	H	F	NH ₂	OEt
acyl	Н	F	NH ₂	O-cyclopropyl
acyl	H	F	NH ₂	O-acetyl
acyl	Н	F	NH ₂	SH
acyl	Н	F	NH ₂	SMe
acyl	H	F	NH ₂	SEt
acyl	H	F	NH ₂	S-cyclopropyl
acyl	H	F	NH ₂	F
acyl	H	F	NH ₂	Cl
acyl	H	F	NH ₂	Br
acyl	H	F	NH ₂	I
acyl	acyl	F	NH ₂	H
	1 40/1		11115	111

R ²	R ³	X ¹	X ²	Y
acyl	acyl	F	NH ₂	NH ₂
acyl	acyl	F	NH ₂	NH-cyclopropyl
acyl	acyl	F	NH ₂	NH-methyl
acyl	acyl	F	NH ₂	NH-ethyl
acyl	acyl	F	NH ₂	NH-acetyl
acyl	acyl	F	NH ₂	OH
acyl	acyl	F	NH ₂	OMe
acyl	acyl	F	NH ₂	OEt
acyl	acyl	F	NH ₂	O-cyclopropyl
acyl	acyl	F	NH ₂	O-acetyl
acyl	acyl	F	NH ₂	SH
acyl	acyl	F	NH ₂	SMe
acyl	acyl	F	NH ₂	SEt
acyl	acyl	F	NH ₂	S-cyclopropyl
acyl	acyl	F	NH ₂	F
acyl	acyl	F	NH ₂	Cl
acyl	acyl	F	NH ₂	Br
acyl	acyl	F	NH ₂	I
acyl	amino acid	F	NH ₂	Н
acyl	amino acid	F	NH ₂	NH ₂
acyl	amino acid	F	NH ₂	NH-cyclopropyl
acyl	amino acid	F	NH ₂	NH-methyl
acyl	amino acid	F	NH ₂	NH-ethyl
acyl	amino acid	F	NH ₂	NH-acetyl
acyl	amino acid	F	NH ₂	ОН
acyl	amino acid	F	NH ₂	OMe
acyl	amino acid	F	NH ₂	OEt
acyl	amino acid	F	NH ₂	O-cyclopropyl
acyl	amino acid	F	NH ₂	O-acetyl
acyl	amino acid	F	NH ₂	SH
acyl	amino acid	F	NH ₂	SMe
acyl	amino acid	F	NH ₂	SEt
acyl	amino acid	F	NH ₂	S-cyclopropyl
acyl	amino acid	F	NH ₂	F
acyl	amino acid	F	NH ₂	Cl
acyl	amino acid	F	NH ₂	Br
acyl	amino acid	F	NH ₂	I
H	acyl	F	NH ₂	Н
H	acyl	F	NH ₂	NH ₂
H	acyl	F	NH ₂	NH-cyclopropyl
H	acyl	F	NH ₂	NH-methyl
H	acyl	F	NH ₂	NH-ethyl
Н	acyl	F	NH ₂	NH-acetyl
Н	acyl	F	NH ₂	ОН
H	acyl	F	NH ₂	OMe
Н	acyl	F	NH ₂	OEt
H	acyl	F	NH ₂	O-cyclopropyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
H	acyl	F	NH ₂	O-acetyl
Н	acyl	F	NH ₂	SH
H	acyl	F	NH ₂	SMe
H	acyl	F	NH ₂	SEt
H	acyl	F	NH ₂	S-cyclopropyl
H	acyl	F	NH ₂	F
H	acyl	F	NH ₂	Cl
H	acyl	F	NH ₂	Br
H	acyl	F	NH ₂	I
Н	amino acid	F	NH ₂	Н
Н	amino acid	F	NH ₂	NH ₂
Н	amino acid	F	NH ₂	NH-cyclopropyl
Н	amino acid	F	NH ₂	NH-methyl
H	amino acid	F	NH ₂	NH-ethyl
Н	amino acid	F	NH ₂	NH-acetyl
Н	amino acid	F	NH ₂	ОН
H	amino acid	F	NH ₂	OMe
H	amino acid	F	NH ₂	OEt
Н	amino acid	F	NH ₂	O-cyclopropyl
H	amino acid	F	NH ₂	O-acetyl
Н	amino acid	F	NH ₂	SH
Н	amino acid	F	NH ₂	SMe
Н	amino acid	F	NH ₂	SEt
Н	amino acid	F	NH ₂	S-cyclopropyl
Н	amino acid	F	NH ₂	F
H	amino acid	F	NH ₂	Cl
Н	amino acid	F	NH ₂	Br
H	amino acid	F	NH ₂	I
amino acid	amino acid	F	NH ₂	Н
amino acid	amino acid	F	NH ₂	NH ₂
amino acid	amino acid	F	NH ₂	NH-cyclopropyl
amino acid	amino acid	·F	NH ₂	NH-methyl
amino acid	amino acid	F	NH ₂	NH-ethyl
amino acid	amino acid	F	NH ₂	NH-acetyl
amino acid	amino acid	F	NH ₂	OH
amino acid	amino acid	F	NH ₂	OMe
amino acid	amino acid	F	NH ₂	OEt
amino acid	amino acid	F	NH ₂	O-cyclopropyl
amino acid	amino acid	F	NH ₂	O-acetyl
amino acid	amino acid	F	NH ₂	SH
amino acid	amino acid	F	NH ₂	SMe
amino acid	amino acid	F	NH ₂	SEt
amino acid	amino acid	F	NH ₂	S-cyclopropyl
amino acid	amino acid	. F	NH ₂	F
amino acid	amino acid	F	NH ₂	Cl
amino acid	amino acid	F	NH ₂	Br
amino acid	amino acid	F	NH ₂	I

R ²	R ³	X ¹	X ²	Y
amino acid	Н	F	NH ₂	H
amino acid	Н	F	NH ₂	NH ₂
amino acid	Н	F	NH ₂	NH-cyclopropyl
amino acid	H	F	NH ₂	NH-methyl
amino acid	H	F	NH ₂	NH-ethyl
amino acid	H	F	NH ₂	NH-acetyl
amino acid	H	F	NH ₂	OH
amino acid	H	F	NH ₂	OMe
amino acid	H	F	NH ₂	OEt
amino acid	H	F	NH ₂	O-cyclopropyl
amino acid	H	F	NH ₂	O-acetyl
amino acid	H	F	NH ₂	SH
amino acid	H	F	NH ₂	SMe
amino acid	H	F	NH ₂	SEt
amino acid	H	F	NH ₂	S-cyclopropyl
amino acid	H	F	NH ₂	F S-cyclopropyr
amino acid	H	F	NH ₂	Cl
amino acid	H	F	NH ₂	Br
amino acid	H	F	NH ₂	I
amino acid	acyl	F	NH ₂	H
amino acid	acyl	F	NH ₂	NH ₂
amino acid	acyl	F	NH ₂	NH-cyclopropyl
amino acid	acyl	F	NH ₂	NH-methyl
amino acid	acyl	F	NH ₂	NH-ethyl
amino acid	acyl	F	NH ₂	NH-acetyl
amino acid	acyl	F	NH ₂	OH
amino acid	acyl	F	NH ₂	OMe
amino acid	acyl	F	NH ₂	OEt
amino acid	acyl	F	NH ₂	O-cyclopropyl
amino acid	acyl	F	NH ₂	O-acetyl
amino acid	acyl	F	NH ₂	SH
amino acid	acyl	F	NH ₂	SMe
amino acid	acyl	F	NH ₂	SEt
amino acid	acyl	F	NH ₂	S-cyclopropyl
amino acid	acyl	F	NH ₂	F
amino acid	acyl	F	NH ₂	Cl
amino acid		F		
	acyl H		NH ₂	Br H
acyl	H	NH ₂	NH ₂	
acyl	H	NH ₂	NH ₂	NH ₂
acyl		NH ₂	NH ₂	NH-cyclopropyl
acyl	H	NH ₂	NH ₂	NH-methyl
acyl	H	NH ₂	NH ₂	NH-ethyl
acyl	H	NH ₂	NH ₂	NH-acetyl
acyl	H_	NH ₂	NH ₂	OH
acyl	H	NH ₂	NH ₂	OMe
acyl	H	NH ₂	NH ₂	OEt
acyl	H	NH ₂	NH ₂	O-cyclopropyl

R ²	R ³	X ¹	X ²	Y
acyl	H	NH ₂	NH ₂	O-acetyl
acyl	Н	NH ₂	NH ₂	SH
acyl	H	NH ₂	NH ₂	SMe
acyl	Н	NH ₂	NH ₂	SEt
acyl	Н	NH ₂	NH ₂	S-cyclopropyl
acyl	H	NH ₂	NH ₂	F
acyl	Н	NH ₂	NH ₂	Cl
acyl	Н	NH ₂	NH ₂	Br
acyl	Н	NH ₂	NH ₂	Ī
acyl	acyl	NH ₂	NH ₂	H
acyl	acyl	NH ₂	NH ₂	NH ₂
acyl	acyl	NH ₂	NH ₂	NH-cyclopropyl
acyl	acyl	NH ₂	NH ₂	NH-methyl
acyl	acyl	NH ₂	NH ₂	NH-ethyl
acyl	acyl	NH ₂	NH ₂	NH-acetyl
acyl	acyl	NH ₂	NH ₂	OH
acyl	acyl	NH ₂	NH ₂	OMe
acyl	acyl	NH ₂	NH ₂	OEt
acyl	acyl	NH ₂	NH ₂	O-cyclopropyl
acyl	acyl	NH ₂	NH ₂	O-acetyl
acyl	acyl	NH ₂	NH ₂	SH
acyl	acyl	NH ₂	NH ₂	SMe
acyl	acyl	NH ₂	NH ₂	SEt
acyl	acyl	NH ₂	NH ₂	S-cyclopropyl
acyl	acyl	NH ₂	NH ₂	F
acyl	acyl	NH ₂	NH ₂	Cl
acyl	acyl	NH ₂	NH ₂	Br
acyl	acyl	NH ₂	NH ₂	I
acyl	amino acid	NH ₂	NH ₂	H
acyl	amino acid	NH ₂	NH ₂	NH ₂
acyl	amino acid	NH ₂	NH ₂	NH-cyclopropyl
acyl	amino acid	NH ₂	NH ₂	NH-methyl
acyl	amino acid	NH ₂	NH ₂	NH-ethyl
acyl	amino acid	NH ₂	NH ₂	NH-acetyl
acyl	amino acid	NH ₂	NH ₂	ОН
acyl	amino acid	NH ₂	NH ₂	OMe
acyl	amino acid	NH ₂	NH ₂	OEt
acyl	amino acid	NH ₂	NH ₂	O-cyclopropyl
acyl	amino acid	NH ₂	NH ₂	O-acetyl
acyl	amino acid	NH ₂	NH ₂	SH
acyl	amino acid	NH ₂	NH ₂	SMe
acyl	amino acid	NH ₂	NH ₂	SEt
acyl	amino acid	NH ₂	NH ₂	S-cyclopropyl
acyl	amino acid	NH ₂	NH ₂	F
acyl	amino acid	NH ₂	NH ₂	Cl
acyl	amino acid	NH ₂	NH ₂	Br
40)1	William Gold		. ^ \^-Z	

\mathbb{R}^2	R ³	X ¹	X ²	Y
Н	acyl	NH ₂	NH ₂	Н
Н	acyl	NH ₂	NH ₂	NH ₂
Н	acyl	NH ₂	NH ₂	NH-cyclopropyl
Н	acyl	NH ₂	NH ₂	NH-methyl
H	acyl	NH ₂	NH ₂	NH-ethyl
H	acyl	NH ₂	NH ₂	NH-acetyl
Н	acyl	NH ₂	NH ₂	OH
H	acyl	NH ₂	NH ₂	OMe
Н	acyl	NH ₂	NH ₂	OEt
H	acyl	NH ₂	NH ₂	O-cyclopropyl
H	acyl	NH ₂	NH ₂	O-acetyl
H_	acyl	NH ₂	NH ₂	SH
Н	acyl	NH ₂	NH ₂	SMe
Н	acyl	NH ₂	NH ₂	SEt
H	acyl	NH ₂	NH ₂	S-cyclopropyl
Н	acyl	NH ₂	NH ₂	F
Н	acyl	NH ₂	NH ₂	Cl
H	acyl	NH ₂	NH ₂	Br
H	acyl	NH ₂	NH ₂	Ī
H	amino acid	NH ₂	NH ₂	Н
H	amino acid	NH ₂	NH ₂	NH ₂
Н	amino acid	NH ₂	NH ₂	NH-cyclopropyl
Н	amino acid	NH ₂	NH ₂	NH-methyl
H	amino acid	NH ₂	NH ₂	NH-ethyl
H	amino acid	NH ₂	NH ₂	NH-acetyl
Н	amino acid	NH ₂	NH ₂	OH
Н	amino acid	NH ₂	NH ₂	OMe
H	amino acid	NH ₂	NH ₂	OEt
H	amino acid	NH ₂	NH ₂	O-cyclopropyl
H	amino acid	NH ₂	NH ₂	O-acetyl
H	amino acid	NH ₂	NH ₂	SH
H	amino acid	NH ₂	NH ₂	SMe
H	amino acid	NH ₂	NH ₂	SEt
H	amino acid	NH ₂	NH ₂	S-cyclopropyl
H	amino acid	NH ₂	NH ₂	F
H	amino acid	NH ₂	NH ₂	Cl
H	amino acid	NH ₂	NH ₂	Br
H	amino acid	NH ₂	NH ₂	I
amino acid	amino acid	NH ₂	NH ₂	H
amino acid	amino acid	NH ₂	NH ₂	NH ₂
amino acid	amino acid	NH ₂	NH ₂	NH-cyclopropyl
amino acid	amino acid	NH ₂	NH ₂	NH-methyl
amino acid	amino acid	NH ₂	NH ₂	NH-ethyl
amino acid	amino acid	NH ₂	NH ₂	NH-acetyl
amino acid	amino acid	NH ₂	NH ₂	ОН
amino acid	amino acid	NH ₂	NH ₂	OMe
amino acid	amino acid	NH ₂	NH ₂	OEt

R^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	amino acid	NH ₂	NH ₂	O-cyclopropyl
amino acid	amino acid	NH ₂	NH ₂	O-acetyl
amino acid	amino acid	NH ₂	NH ₂	SH
amino acid	amino acid	NH ₂	NH ₂	SMe
amino acid	amino acid	NH ₂	NH ₂	SEt
amino acid	amino acid	NH ₂	NH ₂	S-cyclopropyl
amino acid	amino acid	NH ₂	NH ₂	F
amino acid	amino acid	NH ₂	NH ₂	Cl
amino acid	amino acid	NH ₂	NH ₂	Br
amino acid	amino acid	NH ₂	NH ₂	I
amino acid	Н	NH ₂	NH ₂	Н
amino acid	Н	NH ₂	NH ₂	NH ₂
amino acid	Н	NH ₂	NH ₂	NH-cyclopropyl
amino acid	Н	NH ₂	NH ₂	NH-methyl
amino acid	Н	NH ₂	NH ₂	NH-ethyl
amino acid	Н	NH ₂	NH ₂	NH-acetyl
amino acid	Н	NH ₂	NH ₂	ОН
amino acid	Н	NH ₂	NH ₂	OMe
amino acid	H	NH ₂	NH ₂	OEt
amino acid	Н	NH ₂	NH ₂	O-cyclopropyl
amino acid	Н	NH ₂	NH ₂	O-acetyl
amino acid	Н	NH ₂	NH ₂	SH
amino acid	H	NH ₂	NH ₂	SMe
amino acid	Н	NH ₂	NH ₂	SEt
amino acid	Н	NH ₂	NH ₂	S-cyclopropyl
amino acid	H	NH ₂	NH ₂	F
amino acid	H	NH ₂	NH ₂	Cl
amino acid	H	NH ₂	NH ₂	Br
amino acid	Н	NH ₂	NH ₂	I
amino acid	acyl	NH ₂	NH ₂	Н
amino acid	acyl	NH ₂	NH ₂	NH ₂
amino acid	acyl	NH ₂	NH ₂	NH-cyclopropyl
amino acid	acyl	NH ₂	NH ₂	NH-methyl
amino acid	acyl	NH ₂	NH ₂	NH-ethyl
amino acid	acyl	NH ₂	NH ₂	NH-acetyl
amino acid	acyl	NH ₂	NH ₂	OH
amino acid	acyl	NH ₂	NH ₂	OMe
amino acid	acyl	NH ₂	NH ₂	OEt
amino acid	acyl	NH ₂	NH ₂	O-cyclopropyl
amino acid	acyl	NH ₂	NH ₂	O-acetyl
amino acid	acyl	NH ₂	NH ₂	SH
amino acid	acyl	NH ₂	NH ₂	SMe
amino acid	acyl	NH ₂	NH ₂	SEt
amino acid	acyl	NH ₂	NH ₂	S-cyclopropyl
amino acid	acyl	NH ₂	NH ₂	F
		NH ₂	NH ₂	Cl
amino acid	acyl	1 11117	1 11112	l Cl

R ³	X ¹	X ²	Y
acyl	NH ₂	NH ₂	I
H	SH	NH ₂	H
H	SH	NH ₂	NH ₂
H	SH	NH ₂	NH-cyclopropyl
H	SH	NH ₂	NH-methyl
Н	SH		NH-ethyl
Н	SH		NH-acetyl
H			ОН
Н			OMe
H			OEt
H			O-cyclopropyl
H			O-acetyl
H			SH
Н			SMe
Н			SEt
H			S-cyclopropyl
H			F
Н			Cl
H			Br
Н	~		I
acyl			H
			NH ₂
			NH-cyclopropyl
			NH-methyl
			NH-ethyl
			NH-acetyl
	SH		ОН
	SH		OMe
	SH		OEt
	SH		O-cyclopropyl
acyl	SH		O-acetyl
acyl	SH		SH
	SH		SMe
acyl	SH	NH ₂	SEt
acyl	SH	NH ₂	S-cyclopropyl
acyl	SH	NH ₂	F
acyl	SH		Cl
	SH		Br
acyl	SH		I
amino acid	SH		Н
amino acid			NH ₂
amino acid			NH-cyclopropyl
			NH-methyl
			NH-ethyl
			NH-acetyl
amino acid	SH	NH_2	OH
	acyl H H H H H H H H H H H H H H H H H H H	acyl NH2 H SH H	acyl NH2 NH2 H SH NH2 Acyl SH

\mathbb{R}^2	R ³	X^1	X ²	Y
acyl	amino acid	SH	NH ₂	OEt
acyl	amino acid	SH	NH ₂	O-cyclopropyl
acyl	amino acid	SH	NH ₂	O-acetyl
acyl	amino acid	SH	NH ₂	SH
acyl	amino acid	SH	NH ₂	SMe
acyl	amino acid	SH	NH ₂	SEt
acyl	amino acid	SH	NH ₂	S-cyclopropyl
acyl	amino acid	SH	NH ₂	F
acyl	amino acid	SH	NH ₂	Cl
acyl	amino acid	SH	NH ₂	Br
acyl	amino acid	SH	NH ₂	T I
Н	acyl	SH	NH ₂	Н
Н	acyl	SH	NH ₂	NH ₂
Н	acyl	SH	NH ₂	NH-cyclopropyl
Н	acyl	SH	NH ₂	NH-methyl
Н	acyl	SH	NH ₂	NH-ethyl
Н	acyl	SH	NH ₂	NH-acetyl
Н	acyl	SH	NH ₂	OH
Н	acyl	SH	NH ₂	OMe
Н	acyl	SH	NH ₂	OEt
Н	acyl	SH	NH ₂	O-cyclopropyl
Н	acyl	SH	NH ₂	O-acetyl
Н	acyl	SH	NH ₂	SH
Н	acyl	SH	NH ₂	SMe
H	acyl	SH	NH ₂	SEt
H	acyl	SH	NH ₂	S-cyclopropyl
Н	acyl	SH	NH ₂	F
Н	acyl	SH	NH ₂	Cl
Н	acyl	SH	NH ₂	Br
Н	acyl	SH	NH ₂	Ī
Н	amino acid	SH	NH ₂	Н
H	amino acid	SH	NH ₂	NH ₂
Н	amino acid	SH	NH ₂	NH-cyclopropyl
H	amino acid	SH	NH ₂	NH-methyl
H	amino acid	SH	NH ₂	NH-ethyl
Н	amino acid	SH	NH ₂	NH-acetyl
Н	amino acid	SH	NH ₂	ОН
Н	amino acid	SH	NH ₂	OMe
Н	amino acid	SH	NH ₂	OEt
Н	amino acid	SH	NH ₂	O-cyclopropyl
Н	amino acid	SH	NH ₂	O-acetyl
Н	amino acid	SH	NH ₂	SH
Н	amino acid	SH	NH ₂	SMe
H	amino acid	SH	NH ₂	SEt
H	amino acid	SH	NH ₂	S-cyclopropyl
H	amino acid	SH	NH ₂	F
H	amino acid	SH	NH ₂	Cl
11	annio aciu	STI	11112	CI

R ²	\mathbb{R}^3	X ¹	X ²	Y
H	amino acid	SH	NH ₂	Br
H	amino acid	SH	NH ₂	I
amino acid	amino acid	SH	NH ₂	H
amino acid	amino acid	SH	NH ₂	NH ₂
amino acid	amino acid	SH	NH ₂	NH-cyclopropyl
amino acid	amino acid	SH	NH ₂	NH-methyl
amino acid	amino acid	SH	NH ₂	NH-ethyl
amino acid	amino acid	SH	NH ₂	
amino acid	amino acid	SH	NH ₂	NH-acetyl OH
amino acid	amino acid	SH	NH ₂	OMe
amino acid	amino acid	SH	NH ₂	OEt
amino acid	amino acid	SH		
amino acid	amino acid	SH	NH ₂	O-cyclopropyl
amino acid			NH ₂	O-acetyl
amino acid	amino acid	SH	NH ₂	SH
amino acid		SH	NH ₂	SMe
	amino acid	SH	NH ₂	SEt
amino acid	amino acid	SH	NH ₂	S-cyclopropyl
amino acid	amino acid	SH	NH ₂	F
amino acid	amino acid	SH	NH ₂	Cl
amino acid	amino acid	SH	NH ₂	Br
amino acid	amino acid	SH	NH ₂	I
amino acid	H	SH	NH ₂	Н
amino acid	H	SH	NH ₂	NH ₂
amino acid	H	SH	NH ₂	NH-cyclopropyl
amino acid	H	SH	NH ₂	NH-methyl
amino acid	H	SH	NH ₂	NH-ethyl
amino acid	H	SH	NH ₂	NH-acetyl
amino acid	H	SH	NH ₂	ОН
amino acid	H	SH	NH ₂	OMe
amino acid	H	SH	NH ₂	OEt
amino acid	H	SH	NH ₂	O-cyclopropyl
amino acid	H	SH	NH ₂	O-acetyl
amino acid	H	SH	NH ₂	SH
amino acid	H	SH	NH ₂	SMe
amino acid	H	SH	NH ₂	SEt
amino acid	H	SH	NH ₂	S-cyclopropyl
amino acid	H	SH	NH ₂	F
amino acid	H	SH	NH ₂	Cl
amino acid	H	SH	NH ₂	Br
amino acid	Н	SH	NH ₂	I
amino acid	acyl	SH	NH ₂	Н
amino acid	acyl	SH	NH ₂	NH ₂
amino acid	acyl	SH	NH ₂	NH-cyclopropyl
amino acid	acyl	SH	NH ₂	NH-methyl
amino acid	acyl	SH	NH ₂	NH-ethyl
amino acid	acyl	SH	NH ₂	NH-acetyl
amino acid	acyl	SH	NH ₂	OH
4414				1. 711

\mathbb{R}^2	R ³	X ¹	X ²	Ŷ
amino acid	acyl	SH	NH ₂	OMe
amino acid	acyl	SH	NH ₂	OEt
amino acid	acyl	SH	NH ₂	O-cyclopropyl
amino acid	acyl	SH	NH ₂	O-acetyl
amino acid	acyl	SH	NH ₂	SH
amino acid	acyl	SH	NH ₂	SMe
amino acid	acyl	SH	NH ₂	SEt
amino acid	acyl	SH	NH ₂	S-cyclopropyl
amino acid	acyl	SH	NH ₂	F
amino acid	acyl	SH	NH ₂	Cl
amino acid	acyl	SH	NH ₂	Br
amino acid	acyl	SH	NH ₂	Ī
acyl	Н	OH	NH ₂	Н
acyl	H	OH	NH ₂	NH ₂
acyl	H	OH	NH ₂	NH-cyclopropyl
acyl	H	OH	NH ₂	NH-methyl
acyl	H	OH	NH ₂	NH-ethyl
acyl	H	OH	NH ₂	NH-acetyl
acyl	H	OH	NH ₂	OH
acyl	H	OH	NH ₂	OMe
acyl	H	OH	NH ₂	OEt
acyl	H	OH	NH ₂	O-cyclopropyl
acyl	H	OH	NH ₂	O-acetyl
acyl	H	OH	NH ₂	SH
acyl	H	OH	NH ₂	SMe
acyl	H	OH	NH ₂	SEt
acyl	Н	OH	NH ₂	· S-cyclopropyl
acyl	H	OH	NH ₂	F
acyl	Н	ОН	NH ₂	Cl
acyl	Н	OH	NH ₂	Br
acyl	H	OH	NH ₂	I
acyl	acyl	ОН	NH ₂	H
acyl	acyl	ОН	NH ₂	NH ₂
acyl	acyl	ОН	NH ₂	NH-cyclopropyl
acyl	acyl	OH	NH ₂	NH-methyl
acyl	acyl	OH	NH ₂	NH-ethyl
acyl	acyl	OH	NH ₂	NH-acetyl
acyl	acyl	OH	NH ₂	OH
acyl	acyl	OH	NH ₂	OMe
acyl	acyl	OH	NH ₂	OEt
acyl	acyl	OH	NH ₂	O-cyclopropyl
acyl	acyl	OH	NH ₂	O-acetyl
acyl	acyl	·		SH SH
		OH	NH ₂	
acyl	acyl	OH	NH ₂	SMe
acyl	acyl	OH	NH ₂	SEt
acyl	acyl	OH	NH ₂	S-cyclopropyl
acyl	acyl	OH	NH ₂	F

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	acyl	OH	NH ₂	Cl
acyl	acyl	OH	NH ₂	Br
acyl	acyl	OH	NH ₂	I
acyl	amino acid	OH	NH ₂	H
acyl	amino acid	OH	NH ₂	NH ₂
acyl	amino acid	OH	NH ₂	NH-cyclopropyl
acyl	amino acid	ОН	NH ₂	NH-methyl
acyl	amino acid	ОН	NH ₂	NH-ethyl
acyl	amino acid	OH	NH ₂	NH-acetyl
acyl	amino acid	OH	NH ₂	ОН
acyl	amino acid	OH	NH ₂	OMe
acyl	amino acid	OH	NH ₂	OEt
acyl	amino acid	OH	NH ₂	O-cyclopropyl
acyl	amino acid	OH	NH ₂	O-acetyl
acyl	amino acid	ОН	NH ₂	SH
acyl	amino acid	ОН	NH ₂	SMe
acyl	amino acid	ОН	NH ₂	SEt
acyl	amino acid	OH	NH ₂	S-cyclopropyl
acyl	amino acid	OH	NH ₂	F
acyl	amino acid	OH	NH ₂	CI
acyl	amino acid	OH	NH ₂	Br
acyl	amino acid	OH	NH ₂	I
Н	acyl	OH	NH ₂	Н
H	acyl	OH	NH ₂	NH ₂
Н	acyl	OH	NH ₂	NH-cyclopropyl
H	acyl	OH	NH ₂	NH-methyl
H	acyl	OH	NH ₂	NH-ethyl
H_	acyl	OH	NH ₂	NH-acetyl
H	acyl	OH	NH ₂	OH
H	acyl	OH	NH ₂	OMe
H	acyl	OH	NH ₂	OEt
H	acyl	OH	NH ₂	O-cyclopropyl
H	acyl	OH	NH ₂	O-acetyl
H	acyl	OH	NH ₂	SH
H	acyl	OH	NH ₂	SMe
<u>H</u>	acyl	OH	NH ₂	SEt
H	acyl	OH	NH ₂	S-cyclopropyl
Н	acyl	OH	NH ₂	F
Н	acyl	ОН	NH ₂	Cl
Н	acyl	ОН	NH ₂	Br
H	acyl	OH	NH ₂	I
Н	amino acid	OH	NH ₂	Н
Н	amino acid	OH	NH ₂	NH ₂
Н	amino acid	OH	NH ₂	NH-cyclopropyl
Н	amino acid	OH	NH ₂	NH-methyl
Н	amino acid	OH	NH ₂	NH-ethyl
Н	amino acid	ОН	NH ₂	NH-acetyl

R ²	R ³	X¹	X ²	Y
H	amino acid	OH	NH ₂	ОН
H	amino acid	OH	NH ₂	OMe
Н	amino acid	OH	NH ₂	OEt
H	amino acid	OH	NH ₂	O-cyclopropyl
H	amino acid	OH	NH ₂	O-acetyl
H	amino acid	OH	NH ₂	SH
Н	amino acid	ОН	NH ₂	SMe
Н	amino acid	OH	NH ₂	SEt
Н	amino acid	OH	NH ₂	S-cyclopropyl
Н	amino acid	OH	NH ₂	F
H	amino acid	OH	NH ₂	Cl
Н	amino acid	ОН	NH ₂	Br
Н	amino acid	OH	NH ₂	I
amino acid	amino acid	OH	NH ₂	Н
amino acid	amino acid	OH	NH ₂	NH ₂
amino acid	amino acid	OH	NH ₂	NH-cyclopropyl
amino acid	amino acid	ОН	NH ₂	NH-methyl
amino acid	amino acid	ОН	NH ₂	NH-ethyl
amino acid	amino acid	ОН	NH ₂	NH-acetyl
amino acid	amino acid	OH	NH ₂	OH
amino acid	amino acid	OH	NH ₂	OMe
amino acid	amino acid	OH	NH ₂	OEt
amino acid	amino acid	OH	NH ₂	O-cyclopropyl
amino acid	amino acid	OH	NH ₂	O-acetyl
amino acid	amino acid	OH	NH ₂	SH
amino acid	amino acid	OH	NH ₂	SMe
amino acid	amino acid	OH	NH ₂	SEt
amino acid	amino acid	OH	NH ₂	S-cyclopropyl
amino acid	amino acid	OH	NH ₂	F
amino acid	amino acid	OH	NH ₂	C1
amino acid	amino acid	OH	NH ₂	Br
amino acid	amino acid	OH	NH ₂	I
amino acid	H	OH	NH ₂	Н
amino acid	H	OH	NH ₂	NH ₂
amino acid	H	OH	NH ₂	NH-cyclopropyl
amino acid	H	OH	NH ₂	NH-methyl
amino acid	H	OH	NH ₂	NH-ethyl
amino acid	H	OH_	NH ₂	NH-acetyl
amino acid	H	OH	NH ₂	OH
amino acid	H	OH	NH ₂	OMe
amino acid	H	OH	NH ₂	OEt
amino acid	H	OH	NH ₂	O-cyclopropyl
amino acid	H	OH	NH ₂	O-acetyl
amino acid	H	OH	NH ₂	SH
amino acid	Н	OH	NH ₂	SMe
amino acid	H	OH	NH ₂	SEt
amino acid	H	OH	NH ₂	S-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X^2	Y
amino acid	H	OH	NH ₂	F
amino acid	H	OH	NH ₂	Cl
amino acid	H	OH	NH ₂	Br
amino acid	H	OH	NH ₂	I
amino acid	acyl	OH	NH ₂	H
amino acid	acyl	OH	NH ₂	NH ₂
amino acid	acyl	OH	NH ₂	NH-cyclopropyl
amino acid	acyl	OH	NH ₂	NH-methyl
amino acid	acyl	OH	NH ₂	NH-ethyl
amino acid	acyl	OH	NH ₂	NH-acetyl
amino acid		OH	NH ₂	OH
amino acid	acyl	OH		OMe
amino acid	acyl	OH	NH ₂	OEt
amino acid	acyl	OH	+	
	acyl		NH ₂	O-cyclopropyl
amino acid	acyl	OH	NH ₂	O-acetyl
amino acid	acyl	OH	NH ₂	SH
amino acid	acyl	OH	NH ₂	SMe
amino acid	acyl	OH	NH ₂	SEt
amino acid	acyl	OH	NH ₂	S-cyclopropyl
amino acid	acyl	OH	NH ₂	F
amino acid	acyl	OH	NH ₂	Cl
amino acid	acyl	OH	NH ₂	Br
amino acid	acyl	ОН	NH ₂	I
acyl	H	CH ₃	SH	H
acyl	H	CH ₃	SH	NH ₂
acyl	Н	CH ₃	SH	NH-cyclopropyl
acyl	H	CH ₃	SH	NH-methyl
acyl	H	CH ₃	SH	NH-ethyl
acyl	Н	CH ₃	SH	NH-acetyl
acyl	H	CH ₃	SH	ОН
acyl	H	CH ₃	SH	OMe
acyl	H	CH ₃	SH	OEt
acyl	H	CH ₃	SH	O-cyclopropyl
acyl	H	CH ₃	SH	O-acetyl
acyl	H	CH ₃	SH	SH
acyl	H	CH ₃	SH	SMe
acyl	Н	CH ₃	SH	SEt
acyl	Н	CH ₃	SH	S-cyclopropyl
acyl	Н	CH ₃	SH	F
acyl	H	CH ₃	SH	Cl
acyl	H	CH ₃	SH	Br
acyl	Н	CH ₃	SH	I
acyl	acyl	CH ₃	SH	Н
acyl	acyl	CH ₃	SH	NH ₂
acyl	acyl	CH ₃	SH	NH-cyclopropyl
acyl	acyl	CH ₃	SH	NH-methyl
acyl	acyl	CH ₃	SH	NH-ethyl
ue y i	acyı	1 0113	1 211	1411-cuiyi

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	acyl	CH ₃	SH	NH-acetyl
acyl	acyl	CH ₃	SH	OH
acyl	acyl	CH ₃	SH	OMe
acyl	acyl	CH ₃	SH	OEt
acyl	acyl	CH ₃	SH	O-cyclopropyl
acyl	acyl	CH ₃	SH	O-acetyl
acyl	acyl	CH ₃	SH	SH
acyl	acyl	CH ₃	SH	SMe
acyl	acyl	CH ₃	SH	SEt
acyl	acyl	CH ₃	SH	S-cyclopropyl
acyl	acyl	CH ₃	SH	F
acyl	acyl	CH ₃	SH	Cl
acyl	acyl	CH ₃	SH	Br
acyl	acyl	CH ₃	SH	I
acyl	amino acid	CH ₃	SH	Н
acyl	amino acid	CH ₃	SH	NH ₂
acyl	amino acid	CH ₃	SH	NH-cyclopropyl
acyl	amino acid	CH ₃	SH	NH-methyl
acyl	amino acid	CH ₃	SH	NH-ethyl
acyl	amino acid	CH ₃	SH	NH-acetyl
acyl	amino acid	CH ₃	SH	OH
acyl	amino acid	CH ₃	SH	OMe
acyl	amino acid	CH ₃	SH	OEt
acyl	amino acid	CH ₃	SH	O-cyclopropyl
acyl	amino acid	CH ₃	SH	O-acetyl
acyl	amino acid	CH ₃	SH	SH
acyl	amino acid	CH ₃	SH	SMe
acyl	amino acid	CH ₃	SH	SEt
acyl	amino acid	CH ₃	SH	S-cyclopropyl
acyl	amino acid	CH ₃	SH	F
acyl	amino acid	CH ₃	SH	Cl
acyl	amino acid	CH ₃	SH	Br
acyl	amino acid	CH ₃	SH	I
H	acyl	CH ₃	SH	H
H	acyl	CH ₃	SH	NH ₂
H	acyl	CH ₃	SH	NH-cyclopropyl
H	acyl	CH ₃	SH	NH-methyl
H	acyl	CH ₃	SH	NH-ethyl
H	acyl	CH ₃	SH_	NH-acetyl
Н	acyl	CH ₃	SH	ОН
H	acyl	CH ₃	SH	OMe
H	acyl	CH ₃	SH	OEt
H	acyl	CH ₃	SH	O-cyclopropyl
H	acyl	CH ₃	SH	O-acetyl
Н	acyl	CH ₃	SH	SH
H	acyl	CH ₃	SH	SMe
Н	acyl	CH ₃	SH	SEt

R ²	R ³	X	X ²	Y
H	acyl	CH ₃	SH	S-cyclopropyl
H	acyl	CH ₃	SH	F
H	acyl	CH ₃	SH	Cl
Н	acyl	CH ₃	SH	Br
H	acyl	CH ₃	SH	I
H	amino acid	CH ₃	SH	Н
H	amino acid	CH ₃	SH	NH ₂
H	amino acid	CH ₃	SH	NH-cyclopropyl
H	amino acid	CH ₃	SH	NH-methyl
H	amino acid	CH ₃	SH	NH-ethyl
H	amino acid	CH ₃	SH	NH-acetyl
Н	amino acid	CH ₃	SH	OH
H	amino acid	CH ₃	SH	OMe
H	amino acid	CH ₃	SH	OEt
H	amino acid	CH ₃	SH	O-cyclopropyl
H	amino acid	CH ₃	SH	O-acetyl
Н	amino acid	CH ₃	SH	SH
H	amino acid	CH ₃	SH	SMe
H	amino acid	CH ₃	SH	SEt
H	amino acid	CH ₃	SH	S-cyclopropyl
H	amino acid	CH ₃	SH	F
H	amino acid	CH ₃	SH	Cl
H	amino acid	CH ₃	SH	Br
H	amino acid	CH ₃	SH	I
amino acid	amino acid	CH ₃	SH	H
amino acid	amino acid	CH ₃	SH	NH ₂
amino acid	amino acid	CH ₃	SH	NH-cyclopropyl
amino acid	amino acid	CH ₃	SH	NH-methyl
amino acid	amino acid	CH ₃	SH	NH-ethyl
amino acid	amino acid	CH ₃	SH	NH-acetyl
amino acid	amino acid	CH ₃	SH	OH
amino acid	amino acid	CH ₃	SH	OMe
amino acid	amino acid	CH ₃	SH	OEt
amino acid	amino acid	CH ₃	SH	O-cyclopropyl
amino acid	amino acid	CH ₃	SH	O-acetyl
amino acid	amino acid	CH ₃	SH	SH
amino acid	amino acid	CH ₃	SH	SMe
amino acid	amino acid	CH ₃	SH	SEt
amino acid	amino acid	CH ₃	SH	S-cyclopropyl
amino acid	amino acid	CH ₃	SH	F
amino acid	amino acid	CH ₃	SH	Cl
amino acid	amino acid	CH ₃	SH	Br
amino acid	amino acid	CH ₃	SH	I
amino acid	H	CH ₃	SH	H
amino acid	Н	CH ₃	SH	NH ₂
	H	CH ₃	SH	NH-cyclopropyl
amino acid	11	1 0111	1 011	TATE OF CLODE OF AL

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	H	CH ₃	SH	NH-ethyl
amino acid	H	CH ₃	SH	NH-acetyl
amino acid	H	CH ₃	SH	OH
amino acid	H	CH ₃	SH	OMe
amino acid	Н	CH ₃	SH	OEt
amino acid	Н	CH ₃	SH	O-cyclopropyl
amino acid	Н	CH ₃	SH	O-acetyl
amino acid	Н	CH ₃	SH	SH
amino acid	Н	CH ₃	SH	SMe
amino acid	Н	CH ₃	SH	SEt
amino acid	Н	CH ₃	SH	S-cyclopropyl
amino acid	Н	CH ₃	SH	F
amino acid	Н	CH ₃	SH	Cl
amino acid	Н	CH ₃	SH	Br
amino acid	H	CH ₃	SH	Ī
amino acid	acyl	CH ₃	SH	H
amino acid	acyl	CH ₃	SH	NH ₂
amino acid	acyl	CH ₃	SH	NH-cyclopropyl
amino acid	acyl	CH ₃	SH	NH-methyl
amino acid	acyl	CH ₃	SH	NH-ethyl
amino acid	acyl	CH ₃	SH	NH-acetyl
amino acid	acyl	CH ₃	SH	ОН
amino acid	acyl	CH ₃	SH	OMe
amino acid	acyl	CH ₃	SH	OEt
amino acid	acyl	CH ₃	SH	O-cyclopropyl
amino acid	acyl	CH ₃	SH	O-acetyl
amino acid	acyl	CH ₃	SH	SH
amino acid	acyl	CH ₃	SH	SMe
amino acid	acyl	CH ₃	SH	SEt
amino acid	acyl	CH ₃	SH	S-cyclopropyl
amino acid	acyl	CH ₃	SH	F
amino acid	acyl	CH ₃	SH	Cl
amino acid	acyl	CH ₃	SH	Br
amino acid	acyl	CH ₃	SH	I
acyl	Н	CF ₃	SH	H
acyl	Н	CF ₃	SH	NH ₂
acyl	Н	CF ₃	SH	NH-cyclopropyl
acyl	Н	CF ₃	SH	NH-methyl
acyl	Н	CF ₃	SH	NH-ethyl
acyl	Н	CF ₃	SH	NH-acetyl
acyl	Н	CF ₃	SH	OH
acyl	Н	CF ₃	SH	OMe
acyl	H	CF ₃	SH	OEt
acyl	Н	CF ₃	SH	O-cyclopropyl
acyl	H	CF ₃	SH	O-acetyl
acyl	H	CF ₃	SH	SH
acyl	Н	CF ₃	SH	SMe

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
acyl	Н	CF ₃	SH	SEt
acyl	Н	CF ₃	SH	S-cyclopropyl
acyl	Н	CF ₃	SH	F
acyl	H	CF ₃	SH	Cl
acyl	Н	CF ₃	SH	Br
acyl	Н	CF ₃	SH	I
acyl	acyl	CF ₃	SH	H
acyl	acyl	CF ₃	SH	NH ₂
acyl	acyl	CF ₃	SH	NH-cyclopropyl
acyl	acyl	CF ₃	SH	NH-methyl
acyl	acyl	CF ₃	SH	NH-ethyl
acyl	acyl	CF ₃	SH	NH-acetyl
acyl	acyl	CF ₃	SH	ОН
acyl	acyl	CF ₃	SH	OMe
acyl	acyl	CF ₃	SH	OEt
acyl	acyl	CF ₃	SH	O-cyclopropyl
acyl	acyl	CF ₃	SH	O-acetyl
acyl	acyl	CF ₃	SH	SH
acyl	acyl	CF ₃	SH	SMe
acyl	acyl	CF ₃	SH	SEt
acyl	acyl	CF ₃	SH	S-cyclopropyl
acyl	acyl	CF ₃	SH	F
acyl	acyl	CF ₃	SH	Cl
acyl	acyl	CF ₃	SH	Br
acyl	acyl	CF ₃	SH	I
acyl	amino acid	CF ₃	SH	Н
acyl	amino acid	CF ₃	SH	NH ₂
acyl	amino acid	CF ₃	SH	NH-cyclopropyl
acyl	amino acid	CF ₃	SH	NH-methyl
acyl	amino acid	CF ₃	SH	NH-ethyl
acyl	amino acid	CF ₃	SH	NH-acetyl
acyl	amino acid	CF ₃	SH	OH
acyl	amino acid	CF ₃	SH	OMe
acyl	amino acid	CF ₃	SH	OEt
acyl	amino acid	CF ₃	SH	O-cyclopropyl
acyl	amino acid	CF ₃	SH	O-acetyl
acyl	amino acid	CF ₃	SH	SH
acyl	amino acid	CF ₃	SH	SMe
acyl	amino acid	CF ₃	SH	SEt
acyl	amino acid	CF ₃	SH	S-cyclopropyl
acyl	amino acid	CF ₃	SH	F
acyl	amino acid	CF ₃	SH	Cl
acyl	amino acid	CF ₃	SH	Br
acyl	amino acid	CF ₃	SH	I
Н	acyl	CF ₃	SH	Н
Н	acyl	CF ₃	SH	NH ₂
H	acyl	CF ₃	SH	NH-cyclopropyl

\mathbb{R}^2	R ³	X^1	X ²	Y
H	acyl	CF ₃	SH	NH-methyl
Н	acyl	CF ₃	SH	NH-ethyl
Н	acyl	CF ₃	SH	NH-acetyl
Н	acyl	CF ₃	SH	OH
H	acyl	CF ₃	SH	OMe
Н	acyl	CF ₃	SH	OEt
H	acyl	CF ₃	SH	O-cyclopropyl
Н	acyl	CF ₃	SH	O-acetyl
H	acyl	CF ₃	SH	SH
Н	acyl	CF ₃	SH	SMe
H	acyl	CF ₃	SH	SEt
Н	acyl	CF ₃	SH	S-cyclopropyl
Н	acyl	CF ₃	SH	F
Н	acyl	CF ₃	SH	Cl
Н	acyl	CF ₃	SH	Br
H	acyl	CF ₃	SH	I
Н	amino acid	CF ₃	SH	H
H	amino acid	CF ₃	SH	NH ₂
Н	amino acid	CF ₃	SH	NH-cyclopropyl
H	amino acid	CF ₃	SH	NH-methyl
Н	amino acid	CF ₃	SH	NH-ethyl
H	amino acid	CF ₃	SH	NH-acetyl
Н	amino acid	CF ₃	SH	ОН
H_	amino acid	CF ₃	SH	ОМе
Н	amino acid	CF ₃	SH	OEt
H	amino acid	CF ₃	SH	O-cyclopropyl
H	amino acid	CF ₃	SH	O-acetyl
H	amino acid	CF ₃	SH	SH
H	amino acid	CF ₃	SH	SMe
H	amino acid	CF ₃	SH	SEt
H	amino acid	CF ₃	SH	S-cyclopropyl
H	amino acid	CF ₃	SH	F
H	amino acid	CF ₃	SH	C1
H	amino acid	CF ₃	SH	Br
H	amino acid	CF ₃	SH	_ I
amino acid	amino acid	CF ₃	SH	Н
amino acid	amino acid	CF ₃	SH	NH ₂
amino acid	amino acid	CF ₃	SH	NH-cyclopropyl
amino acid	amino acid	CF ₃	SH	NH-methyl
amino acid	amino acid	CF ₃	SH	NH-ethyl
amino acid	amino acid	CF ₃	SH	NH-acetyl
amino acid	amino acid	CF ₃	SH	ОН
amino acid	amino acid	CF ₃	SH	OMe
amino acid	amino acid	CF ₃	SH	OEt
amino acid	amino acid	CF ₃	SH	O-cyclopropyl
amino acid	amino acid	CF ₃	SH	O-acetyl
amino acid	amino acid	CF ₃	SH	SH

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	amino acid	CF ₃	SH	SMe
amino acid	amino acid	CF ₃	SH	SEt
amino acid	amino acid	CF ₃	SH	S-cyclopropyl
amino acid	amino acid	CF ₃	SH	F
amino acid	amino acid	CF ₃	SH	Cl
amino acid	amino acid	CF ₃	SH	Br
amino acid	amino acid	CF ₃	SH	I
amino acid	Н	CF ₃	SH	H
amino acid	H	CF ₃	SH	NH ₂
amino acid	H	CF ₃	SH	NH-cyclopropyl
amino acid	H	CF ₃	SH	NH-methyl
amino acid	H	CF ₃	SH	NH-ethyl
amino acid	H	CF ₃	SH	NH-acetyl
amino acid	H	CF ₃	SH	OH OH
amino acid	H	CF ₃	SH	OMe
amino acid	H	CF ₃	SH	OEt
amino acid	H	CF ₃	SH	O-cyclopropyl
amino acid	H	CF ₃	SH	O-acetyl
amino acid	H	CF ₃	SH	SH
amino acid	H	CF ₃	SH	SMe
amino acid	H	CF ₃	SH	SEt
amino acid	H	CF ₃	SH	S-cyclopropyl
amino acid	H	CF ₃	SH	F S-cyclopropyi
amino acid	H	CF ₃	SH	Cl
amino acid	H	CF ₃	SH	Br
amino acid	H	CF ₃	SH	I
amino acid	acyl	CF ₃	SH	H
amino acid	acyl	CF ₃	SH	NH ₂
amino acid	acyl	CF ₃	SH	NH-cyclopropyl
amino acid	acyl	CF ₃	SH	NH-methyl
amino acid	acyl	CF ₃	SH	NH-ethyl
amino acid	acyl	CF ₃	SH	NH-acetyl
amino acid	acyl	CF ₃	SH	OH
amino acid	acyl	CF ₃	SH	OMe
amino acid	acyl	CF ₃	SH	OEt
amino acid	acyl	CF ₃	SH	
amino acid		CF ₃	SH	O-cyclopropyl
amino acid	acyl acyl	CF ₃	SH	O-acetyl SH
amino acid	acyl	CF ₃		
amino acid			SH	SMe
amino acid	acyl	CF ₃	SH	SEt
amino acid	acyl	CF ₃	SH	S-cyclopropyl
	acyl	CF ₃	SH	F
amino acid	acyl	CF ₃	SH	CI
amino acid	acyl	CF ₃	SH	Br
amino acid	acyl	CF ₃	SH	I
acyl	H	Br	SH	H
acyl	H	Br	SH	NH ₂

\mathbb{R}^2	\mathbb{R}^3	X¹	X ²	Y
acyl	H	Br	SH	NH-cyclopropyl
acyl	H	Br	SH	NH-methyl
acyl	H	Br	SH	NH-ethyl
acyl	H	Br	SH	NH-acetyl
acyl	Н	Br	SH	ОН
acyl	H	Br	SH	OMe
acyl	Н	Br	SH	OEt
acyl	Н	Br	SH	O-cyclopropyl
acyl	Н	Br	SH	O-acetyl
acyl	Н	Br	SH	SH
acyl	Н	Br	SH	SMe
acyl	Н	Br	SH	SEt
acyl	Н	Br	SH	S-cyclopropyl
acyl	Н	Br	SH	F
acyl	Н	Br	SH	Cl
acyl	Н	Br	SH	Br
acyl	H	Br	SH	Ī
acyl	acyl	Br	SH	Н
acyl	acyl	Br	SH	NH ₂
acyl	acyl	Br	SH	NH-cyclopropyl
acyl	acyl	Br	SH	NH-methyl
acyl	acyl	Br	SH	NH-ethyl
acyl	acyl	Br	SH	NH-acetyl
acyl	acyl	Br	SH	OH
acyl	acyl	Br	SH	OMe
acyl	acyl	Br	SH	OEt
acyl	acyl	Br	SH	O-cyclopropyl
acyl	acyl	Br	SH	O-acetyl
acyl	acyl	Br	SH	SH
acyl	acyl	Br	SH	SMe
acyl	acyl	Br	SH	SEt
acyl	acyl	Br	SH	S-cyclopropyl
acyl	acyl	Br	SH ·	F
acyl	acyl	Br	SH	Cl
acyl	acyl	Br	SH	Br
acyl	acyl	Br	SH	I
acyl	amino acid	Br	SH	Н
acyl	amino acid	Br	SH	NH ₂
acyl	amino acid	Br	SH	NH-cyclopropyl
acyl	amino acid	Br	SH	NH-methyl
acyl	amino acid	Br	SH	NH-ethyl
acyl	amino acid	Br	SH	NH-acetyl
acyl	amino acid	Br	SH	OH
acyl	amino acid	Br	SH	OMe
acyl	amino acid	Br	SH	OEt
acyl	amino acid	Br	SH	O-cyclopropyl
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\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	amino acid	Br	SH	SH
acyl	amino acid	Br	SH	SMe
acyl	amino acid	Br	SH	SEt
acyl	amino acid	Br	SH	S-cyclopropyl
acyl	amino acid	Br	SH	F
acyl	amino acid	Br	SH	Cl
acyl	amino acid	Br	SH	Br
acyl	amino acid	Br	SH	I
Н	acyl	Br	SH	H
Н	acyl	Br	SH	NH ₂
H	acyl	Br	SH	NH-cyclopropyl
Н	acyl	Br	SH	NH-methyl
H	acyl	Br	SH	NH-ethyl
H	acyl	Br	SH	NH-acetyl
Н	acyl	Br	SH	ОН
H	acyl	Br	SH	OMe
H	acyl	Br	SH	OEt
H	acyl	Br	SH	O-cyclopropyl
H	acyl	Br	SH	O-acetyl
H	acyl	Br	SH	SH
H	acyl	Br	SH	SMe
H	acyl	Br	SH	SEt
H	acyl	Br	SH	S-cyclopropyl
H	acyl	Br	SH	F
Н	acyl	Br	SH	Cl
Н	acyl	Br	SH	Br
H	acyl	Br	SH	I
H	amino acid	Br	SH	H
H	amino acid	Br	SH	NH ₂
Н	amino acid	Br	SH	NH-cyclopropyl
Н	amino acid	Br	SH	NH-methyl
Н	amino acid	Br	SH	NH-ethyl
H	amino acid	Br_	SH	NH-acetyl
H	amino acid	Br	SH	ОН
H	amino acid	Br	SH	OMe
H	amino acid	Br	SH	OEt_
H	amino acid	Br	SH	Ö-cyclopropyl
H	amino acid	Br	SH	O-acetyl
H	amino acid	Br	SH	SH
H	amino acid	Br	SH	SMe
H	amino acid	Br	SH	SEt
H	amino acid	Br	SH	S-cyclopropyl
H	amino acid	Br	SH	F
H	amino acid	Br	SH	Cl
Н	amino acid	Br	SH	Br
H	amino acid	Br	SH	I
amino acid	amino acid	Br	SH	Н

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
amino acid	amino acid	Br	SH	NH ₂
amino acid	amino acid	Br	SH	NH-cyclopropyl
amino acid	amino acid	Br	SH	NH-methyl
amino acid	amino acid	Br	SH	NH-ethyl
amino acid	amino acid	Br	SH	NH-acetyl
amino acid	amino acid	Br	SH	OH
amino acid	amino acid	Br	SH	OMe
amino acid	amino acid	Br	SH	OEt
amino acid	amino acid	Br	SH	O-cyclopropyl
amino acid	amino acid	Br	SH	
amino acid	amino acid	Br	SH	O-acetyl SH
amino acid	amino acid	Br	SH	SMe
amino acid	amino acid	Br	SH	SEt
amino acid	amino acid	Br	SH	
amino acid	amino acid			S-cyclopropyl
amino acid		Br	SH	F
amino acid	amino acid	Br	SH	Cl
	amino acid	Br	SH	Br
amino acid	amino acid	Br	SH	I
amino acid	H	Br	SH	H
amino acid	Н	Br	SH	NH ₂
amino acid	H	Br	SH	NH-cyclopropyl
amino acid	H	Br	SH	NH-methyl
amino acid	H	Br	SH	NH-ethyl
amino acid	Н	Br	SH	NH-acetyl
amino acid	H	Br	SH	OH
amino acid	H	Br	SH	OMe
amino acid	H	Br	SH	OEt
amino acid	H	Br	SH	O-cyclopropyl
amino acid	H	Br	SH	O-acetyl
amino acid	H	Br	SH	SH
amino acid	H	Br	SH	SMe
amino acid	H	Br	SH	SEt
amino acid	H	Br	SH	S-cyclopropyl
amino acid	H	Br	SH	F
amino acid	H	Br	SH	Cl
amino acid	H	Br	SH	Br
amino acid	H	Br	SH	I
amino acid	acyl	Br	SH	Н
amino acid	acyl	Br	SH	NH ₂
amino acid	acyl	Br	SH	NH-cyclopropyl
amino acid	acyl	Br	SH	NH-methyl
amino acid	acyl	Br	SH	NH-ethyl
amino acid	acyl	Br	SH	NH-acetyl
amino acid	acyl	Br	SH	OH
amino acid	acyl	Br	SH	OMe
amino acid	acyl	Br	SH	OEt
amino acid				
animo aciu	acyl	Br	SH	O-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	acyl	Br	SH	O-acetyl
amino acid	acyl	Br	SH	SH
amino acid	acyl	Br	SH	SMe
amino acid	acyl	Br	SH	SEt
amino acid	acyl	Br	SH	S-cyclopropyl
amino acid	acyl	Br	SH	F
amino acid	acyl	Br	SH	Cl
amino acid	acyl	Br	SH	Br
amino acid	acyl	Br	SH	I
acyl	H	Cl	SH	Н
acyl	Н	Cl	SH	NH ₂
acyl	Н	Cl	SH	NH-cyclopropyl
acyl	H	Cl	SH	NH-methyl
acyl	Н	Cl	SH	NH-ethyl
acyl	Н	Cl	SH	NH-acetyl
acyl	Н	Cl	SH	OH
acyl	Н	Cl	SH	OMe
acyl	Н	Cl	SH	OEt
acyl	Н	Cl	SH	O-cyclopropyl
acyl	H	Cl	SH	O-acetyl
acyl	H	Cl	SH	SH
acyl	Н	Cl	SH	SMe
acyl	H	Cl	SH	SEt
acyl	H	Cl	SH	S-cyclopropyl
acyl	Н	Cl	SH	F
acyl	Н	Cl	SH	Cl
acyl	H	Cl	SH	Br
acyl	H	Cl	SH	I
acyl	acyl	Cl	SH	H
acyl	acyl	Cl	SH	NH ₂
acyl	acyl	Cl	SH	NH-cyclopropyl
acyl	acyl	Cl	SH	NH-methyl
acyl	acyl	Cl .	SH	NH-ethyl
acyl	acyl	Cl	SH	NH-acetyl
acyl	acyl	Cl	SH	OH
acyl	acyl	Cl	SH	OMe
acyl	acyl	Cl	SH	OEt
acyl	acyl	Cl	SH	O-cyclopropyl
acyl	acyl	Cl	SH	O-acetyl
acyl	acyl	Cl	SH	SH
acyl	acyl	CI	SH	SMe
acyl	acyl	CI	SH	SEt
acyl	acyl	CI	SH	S-cyclopropyl
acyl	acyl	CI	SH	F
acyl	acyl	Cl	SH	CI
				
acyl	acyl	Cl	SH	Br

R ²	\mathbb{R}^3	X^1	X ²	Y
acyl	amino acid	Cl	SH	Н
acyl	amino acid	Cl	SH	NH ₂
acyl	amino acid	Cl	SH	NH-cyclopropyl
acyl	amino acid	Cl	SH	NH-methyl
acyl	amino acid	Cl	SH	NH-ethyl
acyl	amino acid	Cl	SH	NH-acetyl
acyl	amino acid	Cl	SH	OH
acyl	amino acid	Cl	SH	OMe
acyl	amino acid	Cl	SH	OEt
acyl	amino acid	Cl	SH	O-cyclopropyl
acyl	amino acid	CI	SH	O-acetyl
acyl	amino acid	Cl	SH	SH
acyl	amino acid	Cl	SH	SMe
acyl	amino acid	Cl	SH	SEt
acyl	amino acid	Ci	SH	S-cyclopropyl
acyl	amino acid	Cl	SH	F
acyl	amino acid	Cl	SH	Cl
acyl	amino acid	Cl	SH	Br
acyl	amino acid	Cl	SH	I
H	acyl	Cl	SH	H
H	acyl	Cl	SH	NH ₂
Н	acyl	Cl	SH	NH-cyclopropyl
H	acyl	Cl	SH	NH-methyl
H	acyl	Cl	SH	NH-ethyl
H	acyl	Cl	SH	NH-acetyl
Н	acyl	Cl	SH	OH
H	acyl	Cl	SH	OMe
H	acyl	Cl	SH	OEt
H	acyl	Cl	SH	O-cyclopropyl
H	acyl	Cl	SH	O-acetyl
H	acyl	Cl	SH	SH
Н	acyl	Cl	SH	SMe
Н	acyl	Cl	SH	SEt
H	acyl	Cl	SH	S-cyclopropyl
Н	acyl	Cl	SH	F
H	acyl	Cl	SH	Cl
H	acyl	Cl	SH	Br
Н	acyl	Cl	SH	I
H	amino acid	Cl	SH	H
H	amino acid	Cl	SH	NH ₂
Н	amino acid	Cl	SH	NH-cyclopropyl
Н	amino acid	CI	SH	NH-methyl
H	amino acid	Cl	SH	NH-ethyl
H	amino acid	Cl	SH	NH-acetyl
Н	amino acid	CI	SH	OH
H	amino acid	CI	SH	OMe
H	amino acid	CI		
n	amino acid	Cl	SH	OEt

\mathbb{R}^2	R ³	X ¹	X ²	Y
Н	amino acid	Cl	SH	O-cyclopropyl
H	amino acid	Cl	SH	O-acetyl
Н	amino acid	Cl	SH	SH
Н	amino acid	Cl	SH	SMe
H	amino acid	Cl	SH	SEt
H	amino acid	Cl	SH	S-cyclopropyl
Н	amino acid	Cl	SH	F
H	amino acid	Cl	SH	Cl
Н	amino acid	Cl	SH	Br
H	amino acid	Cl	SH	I
amino acid	amino acid	Cl	SH	H
amino acid	amino acid	Cl	SH	NH ₂
amino acid	amino acid	Cl	SH	NH-cyclopropyl
amino acid	amino acid	Cl	SH	NH-methyl
amino acid	amino acid	Cl	SH	NH-ethyl
amino acid	amino acid	Cl	SH	NH-acetyl
amino acid	amino acid	Cl	SH	OH
amino acid	amino acid	Cl	SH	OMe
amino acid	amino acid	Cl	SH	OEt
amino acid	amino acid	Cl	SH	O-cyclopropyl
amino acid	amino acid	Cl	SH	O-acetyl
amino acid	amino acid	Cl	SH	SH
amino acid	amino acid	Cl	SH	SMe
amino acid	amino acid	Cl	SH	SEt
amino acid	amino acid	Cl	SH	S-cyclopropyl
amino acid	amino acid	Cl	SH	F
amino acid	amino acid	Cl	SH	Cl
amino acid	amino acid	Cl	SH	Br
amino acid	amino acid	Cl	SH	I
amino acid	H	Cl	SH	H
amino acid	H	Cl	SH	NH ₂
amino acid	H	Cl	SH	NH-cyclopropyl
amino acid	Н	Cl	SH	NH-methyl
amino acid	H	Cl	SH	NH-ethyl
amino acid	H	Cl	SH	NH-acetyl
amino acid	H	Cl	SH	ОН
amino acid	H	C1	SH	OMe
amino acid	H	Cl	SH	OEt
amino acid	Н	Cl	SH	O-cyclopropyl
amino acid	Н	Cl	SH	O-acetyl
amino acid	H	Cl	SH	SH
amino acid	Н	Cl	SH	SMe
amino acid	H	Cl	SH	SEt
amino acid	H	Cl	SH	S-cyclopropyl
amino acid	H	Cl	SH	F
amino acid	Н	Cl	SH	Cl
amino acid	H	Cl	SH	Br

R ²	R ³	X¹	X ²	Y
amino acid	Н	Cl	SH	I
amino acid	acyl	Cl	SH	H
amino acid	acyl	Cl	SH	NH ₂
amino acid	acyl	Cl	SH	NH-cyclopropyl
amino acid	acyl	Cl	SH	NH-methyl
amino acid	acyl	Cl	SH	NH-ethyl
amino acid	acyl	Cl	SH	NH-acetyl
amino acid	acyl	Cl	SH	OH
amino acid	acyl	Cl	SH	OMe
amino acid	acyl	Cl	SH	OEt
amino acid	acyl	Cl	SH	O-cyclopropyl
amino acid	acyl	Cl	SH	O-acetyl
amino acid	acyl	Cl	SH	SH
amino acid	acyl	CI	SH	SMe
amino acid	acyl	Cl	SH	SEt
amino acid	acyl	Cl	SH	S-cyclopropyl
amino acid	acyl	Cl	SH	F
amino acid	acyl	Cl	SH	Cl
amino acid	acyl	Cl	SH	Br
amino acid	acyl	Cl	SH	Ī
acyl	H	F	SH	Н
acyl	Н	F	SH	NH ₂
acyl	Н	F	SH	NH-cyclopropyl
acyl	Н	F	SH	NH-methyl
acyl	H	F	SH	NH-ethyl
acyl	Н	F	SH	NH-acetyl
acyl	H	F	SH	OH
acyl	H	F	SH	OMe
acyl	Н	F	SH	OEt
acyl	Н	F	SH	O-cyclopropyl
acyl	Н	F	SH	O-acetyl
acyl	H	F	SH	SH
acyl	H	F	SH	SMe
acyl	Н	F	SH	SEt
acyl	H	F	SH	S-cyclopropyl
acyl	H	F	SH	F
acyl	Н	F	SH	Cl
acyl	Н	F	SH	Br
acyl	Н	F	SH	Ī
acyl	acyl	F	SH	H
acyl	acyl	F	SH	NH ₂
acyl	acyl	F	SH	NH-cyclopropyl
acyl	acyl	F	SH	NH-methyl
acyl	acyl	F	SH	NH-ethyl
acyl	acyl	F	SH	NH-acetyl
acyl	acyl	F	SH	OH
acyl	acyl	F	SH	OMe
acyi	acyi	T .	l ou	T OIME

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
acyl	acyl	F	SH	OEt
acyl	acyl	F	SH	O-cyclopropyl
acyl	acyl	F	SH	O-acetyl
acyl	acyl	F	SH	SH
acyl	acyl	F	SH	SMe
acyl	acyl	F	SH	SEt
acyl	acyl	$-\frac{1}{F}$	SH	S-cyclopropyl
acyl	acyl	$\frac{1}{F}$	SH	F
acyl	acyl	F	SH	Cl
acyl	acyl	F	SH	Br
acyl	acyl	F	SH	I
acyl	amino acid	F	SH	H
acyl	amino acid	F	SH	NH ₂
acyl	amino acid	F	SH	NH-cyclopropyl
acyl	amino acid	F	SH	NH-methyl
acyl	amino acid	F	SH	NH-ethyl
acyl	amino acid	F	SH	NH-acetyl
acyl	amino acid	F	SH	OH
acyl	amino acid	F	SH	OMe
acyl	amino acid	F	SH	OEt
acyl	amino acid	F	SH	O-cyclopropyl
acyl	amino acid	F	SH	O-acetyl
acyl	amino acid	F	SH	SH
acyl	amino acid	F	SH	SMe
acyl	amino acid	F	SH	SEt
acyl	amino acid	F	SH	S-cyclopropyl
acyl	amino acid	F	SH	F S-cyclopropyr
acyl	amino acid	$\frac{1}{F}$	SH	CI
acyl	amino acid	F	SH	Br
acyl	amino acid	$-\frac{1}{F}$	SH	I
H	acyl	$\frac{1}{F}$	SH	H
H	acyl	F	SH	NH ₂
H	acyl	$\frac{1}{F}$	SH	NH-cyclopropyl
H	acyl	F	SH	NH-methyl
H	acyl	F	SH	NH-ethyl
H	acyl	F	SH	NH-acetyl
H	acyl	F	SH	OH
H	acyl	F	SH	OMe
H	acyl	F	SH	OEt
H	acyl	F	SH	O-cyclopropyl
H	acyl	$\frac{\mathbf{F}}{\mathbf{F}}$	SH	O-acetyl
		F	SH	SH SH
H	acyl	$\frac{F}{F}$		
	acyl		SH	SMe
H	acyl	F	SH	SEt
H	acyl	F	SH	S-cyclopropyl
H	acyl	F	SH	F
H	acyl	F	SH	Cl

R ²	\mathbb{R}^3	X	X ²	Y
H	acyl	F	SH	Br
H	acyl	F	SH	I
H	amino acid	F	SH	H
H	amino acid	F	SH	NH ₂
Н	amino acid	F	SH	NH-cyclopropyl
H	amino acid	F	SH	NH-methyl
Н	amino acid	F	SH	NH-ethyl
Н	amino acid	F	SH	NH-acetyl
H	amino acid	F	SH	OH
Н	amino acid	F	SH	OMe
H	amino acid	F	SH	OEt
H	amino acid	F	SH	O-cyclopropyl
Н	amino acid	F	SH	O-acetyl
H	amino acid	F	SH	SH
H	amino acid	F	SH	SMe
H	amino acid	F	SH	SEt
Н	amino acid	F	SH	S-cyclopropyl
Н	amino acid	$\int \mathbf{F}$	SH	F
Н	amino acid	F	SH	Cl
H	amino acid	F	SH	Br
H	amino acid	F	SH	I
amino acid	amino acid	F	SH	Н
amino acid	amino acid	F	SH	NH ₂
amino acid	amino acid	F	SH	NH-cyclopropyl
amino acid	amino acid	F	SH	NH-methyl
amino acid	amino acid	F	SH	NH-ethyl
amino acid	amino acid	F	SH	NH-acetyl
amino acid	amino acid	F	SH	OH
amino acid	amino acid	F	SH	OMe
amino acid	amino acid	F	SH	OEt
amino acid	amino acid	F	SH	O-cyclopropyl
amino acid	amino acid	F	SH	O-acetyl
amino acid	amino acid	F	SH	SH
amino acid	amino acid	F	SH	SMe
amino acid	amino acid	F	SH	SEt
amino acid	amino acid	F	SH	S-cyclopropyl
amino acid	amino acid	F	SH	F
amino acid	amino acid	F	SH	Cl
amino acid	amino acid	F	SH	Br
amino acid	amino acid	F	SH	I
amino acid	H	F	SH	H
amino acid	H	F	SH	NH ₂
amino acid	H	F	SH	NH-cyclopropyl
amino acid	H	F	SH	NH-methyl
amino acid	Н	F	SH	NH-ethyl
amino acid	Н	F	SH	NH-acetyl
amino acid	H	F	SH	OH

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	H	F	SH	OMe
amino acid	H	F	SH	OEt
amino acid	H	F	SH	O-cyclopropyl
amino acid	Н	F	SH	O-acetyl
amino acid	H	F	SH	SH
amino acid	Н	F	SH	SMe
amino acid	Н	F	SH	SEt
amino acid	H	F	SH	S-cyclopropyl
amino acid	H	F	SH	F
amino acid	H	F	SH	Cl
amino acid	H	F	SH	Br
amino acid	H	F	SH	I
amino acid	acyl	F	SH	H
amino acid	acyl	F	SH	NH ₂
amino acid	acyl	F	SH	NH-cyclopropyl
amino acid	acyl	F	SH	NH-methyl
amino acid	acyl	F	SH	NH-ethyl
amino acid	acyl	F	SH	NH-acetyl
amino acid	acyl	F	SH	OH OH
amino acid	acyl	F	SH	OMe
amino acid	acyl	F	SH	OEt
amino acid	acyl	F	SH	O-cyclopropyl
amino acid	acyl	F	SH	O-acetyl
amino acid	acyl	F	SH	SH
amino acid	acyl	F	SH	SMe
amino acid	acyl	F	SH	SEt
amino acid	acyl	F	SH	S-cyclopropyl
amino acid	acyl	F	SH	F S-cyclopropyr
amino acid	acyl	F	SH	Cl
amino acid	acyl	F	SH	Br
acyl	H	NH ₂	SH	H
acyl	H	NH ₂	SH	NH ₂
acyl	H	NH ₂	SH	
	H	+	SH	NH-cyclopropyl
acyl	H	NH ₂	SH	NH-methyl
acyl	H	NH ₂		NH-ethyl
acyl	H		SH	NH-acetyl
acyl		NH ₂	SH	OM
acyl	H	NH ₂	SH	OMe
acyl	H	NH ₂	SH	OEt
acyl	H	NH ₂	SH	O-cyclopropyl
acyl	H	NH ₂	SH	O-acetyl
acyl	H	NH ₂	SH	SH
acyl	H	NH ₂	SH	SMe
acyl	H	NH ₂	SH	SEt
acyl	H	NH ₂	SH	S-cyclopropyl
acyl	H	NH ₂	SH	F
acyl	H	NH ₂	SH	Cl

R ²	\mathbb{R}^3	X ¹	X ²	Y
acyl	Н	NH ₂	SH	Br
acyl	H	NH ₂	SH	I
acyl	acyl	NH ₂	SH	H
acyl	acyl	NH ₂	SH	NH ₂
acyl	acyl	NH ₂	SH	NH-cyclopropyl
acyl	acyl	NH ₂	SH	NH-methyl
acyl	acyl	NH ₂	SH	NH-ethyl
acyl	acyl	NH ₂	SH	NH-acetyl
acyl	acyl	NH ₂	SH	OH
acyl	acyl	NH ₂	SH	OMe
acyl	acyl	NH ₂	SH	OEt
acyl	acyl	NH ₂	SH	O-cyclopropyl
acyl	acyl	NH ₂	SH	O-acetyl
acyl	acyl	NH ₂	SH	SH
acyl	acyl	NH ₂	SH	SMe
acyl	acyl	NH ₂	SH	SEt
acyl	acyl	NH ₂	SH	S-cyclopropyl
acyl	acyl	NH ₂	SH	F
acyl	acyl	NH ₂	SH	Cl
acyl	acyl	NH ₂	SH	Br
acyl	acyl	NH ₂	SH	I
acyl	amino acid	NH ₂	SH	Н
acyl	amino acid	NH ₂	SH	NH ₂
acyl	amino acid	NH ₂	SH	NH-cyclopropyl
acyl	amino acid	NH ₂	SH	NH-methyl
acyl	amino acid	NH ₂	SH	NH-ethyl
acyl	amino acid	NH ₂	SH	NH-acetyl
acyl	amino acid	NH ₂	SH	OH
acyl	amino acid	NH ₂	SH_	OMe
acyl	amino acid	NH ₂	SH	OEt
acyl	amino acid	NH ₂	SH	O-cyclopropyl
acyl	amino acid	NH ₂	SH	O-acetyl
acyl	amino acid	NH ₂	SH	SH
acyl	amino acid	NH ₂	SH	SMe
acyl	amino acid	NH ₂	SH	SEt
acyl	amino acid	NH ₂	SH	S-cyclopropyl
acyl	amino acid	NH ₂	SH	F
acyl	amino acid	NH ₂	SH	C1_
acyl	amino acid	NH ₂	SH	Br
acyl	amino acid	NH ₂	SH	I
H	acyl	NH ₂	SH	H
Н	acyl	NH ₂	SH	NH ₂
H	acyl	NH ₂	SH	NH-cyclopropyl
H	acyl	NH ₂	SH	NH-methyl
H	acyl	NH ₂	SH	NH-ethyl
H	acyl	NH ₂	SH	NH-acetyl
Н	acyl	NH ₂	SH	ОН

R ²	R ³	X	X ²	Y
Н	acyl	NH ₂	SH	OMe
H	acyl	NH ₂	SH	OEt
H	acyl	NH ₂	SH	O-cyclopropyl
H	acyl	NH ₂	SH	O-acetyl
H	acyl	NH ₂	SH	SH
H	acyl	NH ₂	SH	SMe
H	acyl	NH ₂	SH	SEt
Н	acyl	NH ₂	SH	S-cyclopropyl
H	acyl	NH ₂	SH	F
Н	acyl	NH ₂	SH	Cl
Н	acyl	NH ₂	SH	Br
Н	acyl	NH ₂	SH	I
Н	amino acid	NH ₂	SH	Н
H	amino acid	NH ₂	SH	NH ₂
H	amino acid	NH ₂	SH	NH-cyclopropyl
Н	amino acid	NH ₂	SH	NH-methyl
Н	amino acid	NH ₂	SH	NH-ethyl
Н	amino acid	NH ₂	SH	NH-acetyl
H	amino acid	NH ₂	SH	OH
Н	amino acid	NH ₂	SH	OMe
Н	amino acid	NH ₂	SH	OEt
H	amino acid	NH ₂	SH	O-cyclopropyl
Н	amino acid	NH ₂	SH	O-acetyl
H	amino acid	NH ₂	SH	SH
H	amino acid	NH ₂	SH	SMe
Н	amino acid	NH ₂	SH	SEt
H	amino acid	NH ₂	SH	S-cyclopropyl
H	amino acid	NH ₂	SH	F
H	amino acid	NH ₂	SH	Cl
H	amino acid	NH ₂	SH	Br
H	amino acid	NH ₂	SH	I
amino acid	amino acid	NH ₂	SH	H
amino acid	amino acid	NH ₂	SH	NH ₂
amino acid	amino acid	NH ₂	SH	NH-cyclopropyl
amino acid	amino acid	NH ₂	SH	NH-methyl
amino acid	amino acid	NH ₂	SH	NH-ethyl
amino acid	amino acid	NH ₂	SH	NH-acetyl
amino acid	amino acid	NH ₂	SH	OH
amino acid	amino acid	NH ₂	SH	OMe
amino acid	amino acid	NH ₂	SH	OEt
amino acid	amino acid	NH ₂	SH	O-cyclopropyl
amino acid	amino acid	NH ₂	SH	O-acetyl
amino acid	amino acid	NH ₂	SH	SH
amino acid	amino acid	NH ₂	SH	SMe
amino acid	amino acid	NH ₂	SH	SEt
amino acid	amino acid	NH ₂	SH	S-cyclopropyl
amino acid	amino acid	NH ₂	SH	F

R ²	R ³	X^1	X ²	Y
amino acid	amino acid	NH ₂	SH	Cl
amino acid	amino acid	NH ₂	SH	Br
amino acid	amino acid	NH ₂	SH	I
amino acid	Н	NH ₂	SH	H
amino acid	H	NH ₂	SH	NH ₂
amino acid	Н	NH ₂	SH	NH-cyclopropyl
amino acid	Н	NH ₂	SH	NH-methyl
amino acid	Н	NH ₂	SH	NH-ethyl
amino acid	Н	NH ₂	SH	NH-acetyl
amino acid	Н	NH ₂	SH	OH
amino acid	Н	NH ₂	SH	OMe
amino acid	Н	NH ₂	SH	OEt
amino acid	Н	NH ₂	SH	O-cyclopropyl
amino acid	Н	NH ₂	SH	O-acetyl
amino acid	Н	NH ₂	SH	SH
amino acid	Н	NH ₂	SH	SMe
amino acid	Н	NH ₂	SH	SEt
amino acid	H	NH ₂	SH	S-cyclopropyl
amino acid	H	NH ₂	SH	F
amino acid	H	NH ₂	SH	Cl
amino acid	Н	NH ₂	SH	Br
amino acid	H	NH ₂	SH	I
amino acid	acyl	NH ₂	SH	H
amino acid	acyl	NH ₂	SH	NH ₂
amino acid	acyl	NH ₂	SH	NH-cyclopropyl
amino acid	acyl	NH ₂	SH	NH-methyl
amino acid	acyl	NH ₂	SH	NH-ethyl
amino acid	acyl	NH ₂	SH	NH-acetyl
amino acid	acyl	NH ₂	SH	ОН
amino acid	acyl	NH ₂	SH	OMe
amino acid	acyl	NH ₂	SH	OEt
amino acid	acyl	NH ₂	SH	O-cyclopropyl
amino acid	acyl	NH ₂	SH	O-acetyl
amino acid	acyl	NH ₂	SH	SH
amino acid	acyl	NH ₂	SH	SMe
amino acid	acyl	NH ₂	SH	SEt
amino acid	acyl	NH ₂	SH	S-cyclopropyl
amino acid	acyl	NH ₂	SH	F
amino acid	acyl	NH ₂	SH	Cl
amino acid	acyl	NH ₂	SH	Br
amino acid	acyl	NH ₂	SH	I
acyl	Н	SH	SH	Н
acyl	H	SH	SH	NH ₂
acyl	Н	SH	SH	NH-cyclopropyl
acyl	Н	SH	SH	NH-methyl
acyl	Н	SH	SH	NH-ethyl
acyl	Н	SH	SH	NH-acetyl

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	Н	SH	SH	OH
acyl	H	SH	SH	OMe
acyl	H	SH	SH	OEt
acyl	H	SH	SH	O-cyclopropyl
acyl	H	SH	SH	O-acetyl
acyl	H	SH	SH	SH
acyl	Н	SH	SH	SMe
acyl	Н	SH	SH	SEt
acyl	Н	SH	SH	S-cyclopropyl
acyl	Н	SH	SH	F
acyl	Н	SH	SH	Cl
acyl	Н	SH	SH	Br
acyl	H	SH	SH	I
acyl	acyl	SH	SH	H
acyl	acyl	SH	SH	NH ₂
acyl	acyl	SH	SH	NH-cyclopropyl
acyl	acyl	SH	SH	NH-methyl
acyl	acyl	SH	SH	NH-ethyl
acyl	acyl	SH	SH	NH-acetyl
acyl	acyl	SH	SH	OH
acyl	acyl	SH	SH	OMe
acyl	acyl	SH	SH	OEt
acyl	acyl	SH	SH	O-cyclopropyl
acyl	acyl	SH	SH	O-acetyl
acyl	acyl	SH	SH	SH
acyl	acyl	SH	SH	SMe
acyl	acyl	SH	SH	SEt
acyl	acyl	SH	SH	S-cyclopropyl
acyl	acyl	SH	SH	F
acyl	acyl	SH	SH	Cl
acyl	acyl	SH	SH	Br
acyl	acyl	SH	SH	I
acyl	amino acid	SH	SH	Н
acyl	amino acid	SH	SH	NH ₂
acyl	amino acid	SH	SH	NH-cyclopropyl
acyl	amino acid	SH	SH	NH-methyl
acyl	amino acid	SH	SH	NH-ethyl
acyl	amino acid	SH	SH	NH-acetyl
acyl	amino acid	SH	SH	OH
acyl	amino acid	SH	SH	OMe
acyl	amino acid	SH	SH	OEt
acyl	amino acid	SH	SH	O-cyclopropyl
acyl	amino acid	SH	SH	O-acetyl
acyl	amino acid	SH	SH	SH
acyl	amino acid	SH	SH	SMe
acyl	amino acid	SH	SH	SEt
acyl	amino acid	SH	SH	S-cyclopropyl

acyl ami acyl ami acyl ami H acy H ami H ami		SH S	SH S	F Cl Br I H NH2 NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe OEt O-cyclopropyl
acyl ami acyl ami H acy H ami H ami H ami	no acid no acid l l l l l l l l l l l l l l l l l l l	SH S	SH S	Br I H NH2 NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe OEt
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H acy		SH S	SH SH SH SH SH SH SH SH SH	H NH ₂ NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe OEt
H acy		SH S	SH SH SH SH SH SH SH SH	NH ₂ NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe OEt
H acy		SH SH SH SH SH SH SH SH SH SH	SH SH SH SH SH SH SH SH	NH-cyclopropyl NH-methyl NH-ethyl NH-acetyl OH OMe OEt
H acy		SH SH SH SH SH SH SH SH SH	SH SH SH SH SH SH SH	NH-methyl NH-ethyl NH-acetyl OH OMe OEt
H acy		SH SH SH SH SH SH SH SH	SH SH SH SH SH SH	NH-methyl NH-ethyl NH-acetyl OH OMe OEt
H acy		SH SH SH SH SH SH SH	SH SH SH SH	NH-ethyl NH-acetyl OH OMe OEt
H acy		SH SH SH SH SH SH	SH SH SH SH	OH OMe OEt
H acy		SH SH SH SH SH	SH SH SH	OMe OEt
H acy		SH SH SH SH	SH SH	OEt
H acy	l 	SH SH SH	SH	
H acy	l 	SH SH		O-cyclopropyl
H acy	l 	SH		
H acy				O-acetyl
H acy		CIT	SH	SH
H acy H ami		SH	SH	SMe
H acy H acy H acy H acy H ami H ami	1	SH	SH	SEt
H acy H acy H acy H ami H ami	L [SH	SH	S-cyclopropyl
H acy H acy H ami H ami	1	SH	SH	F
H acy H ami H ami	1	SH	SH	Cl
H ami	l i	SH	SH	Br
H ami		SH	SH	I
	no acid	SH	SH	H
	no acid	SH	SH	NH ₂
	no acid	SH	SH	NH-cyclopropyl
	no acid	SH	SH	NH-methyl
	no acid	SH	SH	NH-ethyl
	no acid	SH	SH	NH-acetyl
	no acid	SH	SH	ОН
	no acid	SH	SH	OMe
	no acid	SH	SH	OEt
H ami	no acid	SH	SH	O-cyclopropyl
Hami	no acid	SH	SH	O-acetyl
	no acid	SH	SH	SH
	no acid	SH	SH	SMe
	no acid	SH	SH	SEt
	no acid	SH	SH	S-cyclopropyl
	no acid	SH	SH	F
	no acid	SH	SH	Cl
	no acid	SH	SH	Br
H ami	no acid	SH	SH	<u>.I</u>
	no acid	SH	SH	Н
amino acid ami	no acid	SH	SH	NH ₂
amino acid ami	no acid	SH	SH	NH-cyclopropyl
amino acid ami	no acid	SH	SH	NH-methyl
amino acid ami	no aciu	SH	SH	NH-ethyl

\mathbb{R}^2	\mathbb{R}^3	X	X ²	Y
amino acid	amino acid	SH	SH	NH-acetyl
amino acid	amino acid	SH	SH	OH
amino acid	amino acid	SH	SH	OMe
amino acid	amino acid	SH	SH	OEt
amino acid	amino acid	SH	SH	O-cyclopropyl
amino acid	amino acid	SH	SH	O-acetyl
amino acid	amino acid	SH	SH	SH
amino acid	amino acid	SH	SH	SMe
amino acid	amino acid	SH	SH	SEt
amino acid	amino acid	SH	SH	S-cyclopropyl
amino acid	amino acid	SH	SH	F
amino acid	amino acid	SH	SH	Cl
amino acid	amino acid	SH	SH	Br
amino acid	amino acid	SH	SH	Ī
amino acid	Н	SH	SH	H
amino acid	H	SH	SH	NH ₂
amino acid	H	SH	SH	NH-cyclopropyl
amino acid	H	SH	SH	NH-methyl
amino acid	H	SH	SH	NH-ethyl
amino acid	H	SH	SH	NH-acetyl
amino acid	Н	SH	SH	OH
amino acid	Н	SH	SH	OMe
amino acid	H	SH	SH	OEt
amino acid	H	SH	SH	O-cyclopropyl.
amino acid	Н	SH	SH	O-acetyl
amino acid	Н	SH	SH	SH
amino acid	H	SH	SH	SMe
amino acid	H	SH	SH	SEt
amino acid	H	SH	SH	S-cyclopropyl
amino acid	H	SH	SH	F
amino acid	Н	SH	SH	Cl
amino acid	Н	SH	SH	Br
amino acid	Н	SH	SH	I
amino acid	acyl	SH	SH	Н
amino acid	acyl	SH	SH	NH ₂
amino acid	acyl	SH	SH	NH-cyclopropyl
amino acid	acyl	SH	SH	NH-methyl
amino acid	acyl	SH	SH	NH-ethyl
amino acid	acyl	SH	SH	NH-acetyl
amino acid	acyl	SH	SH	ОН
amino acid	acyl	SH	SH	OMe
amino acid	acyl	SH	SH	OEt
amino acid	acyl	SH	SH	O-cyclopropyl
amino acid	acyl	SH	SH	O-acetyl
amino acid	acyl	SH	SH	SH
amino acid	acyl	SH	SH	SMe
amino acid	acyl	SH	SH	SEt
	1 40) 1	1011		

\mathbb{R}^2	R ³	X	X ²	Y
amino acid	acyl	SH	SH	S-cyclopropyl
amino acid	acyl	SH	SH	F
amino acid	acyl	SH	SH	Cl
amino acid	acyl	SH	SH	Br
amino acid	acyl	SH	SH	
acyl	H	OH	SH	Н
acyl	Н	OH	SH	NH ₂
acyl	H	OH	SH	NH-cyclopropyl
acyl	H	OH	SH	NH-methyl
acyl	H	OH	SH	NH-ethyl
acyl	H	OH	SH	NH-acetyl
acyl	H	OH	SH	OH
acyl	H	OH	SH	OMe
acyl	H	OH	SH	OEt
acyl	H	OH	SH	O-cyclopropyl
acyl	H	OH	SH	O-acetyl
acyl	H	OH	SH	SH
acyl	H	OH	SH	SMe
acyl	H	OH	SH	SEt
acyl	H	OH	SH	S-cyclopropyl .
acyl	H	OH	SH	F
acyl	H	OH	SH	Cl
acyl	H	OH	SH	Br
acyl	H	OH	SH	I
acyl	acyl	OH	SH	H
acyl	acyl	OH	SH	NH ₂
acyl	acyl	OH	SH	NH-cyclopropyl
acyl	acyl	OH	SH	NH-methyl
acyl	acyl	OH	SH	NH-ethyl
acyl	acyl	OH	SH	NH-acetyl
acyl	acyl	OH	SH	OH
acyl	acyl	OH	SH	OMe
acyl	acyl	OH	SH	OEt
acyl	acyl	OH	SH	O-cyclopropyl
acyl	acyl	OH	SH	O-acetyl
acyl	acyl	OH	SH	SH
acyl	acyl	OH	SH	SMe
acyl	acyl	OH	SH	SEt
acyl	acyl	OH	SH	S-cyclopropyl
acyl	acyl	OH	SH	F S-cyclopropyr
acyl	acyl	OH	SH	Cl
acyl		OH	SH	
	acyl			Br
acyl	acyl	OH	SH	I
acyl	amino acid	OH	SH	H
acyl	amino acid	OH	SH	NH ₂
acyl	amino acid	OH	SH	NH-cyclopropyl
acyl	amino acid	OH	SH	NH-methyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	amino acid	OH	SH	NH-ethyl
acyl	amino acid	OH	SH	NH-acetyl
acyl	amino acid	OH	SH	ОН
acyl	amino acid	OH	SH	OMe
acyl	amino acid	OH	SH	OEt
acyl	amino acid	OH	SH	O-cyclopropyl
acyl	amino acid	OH	SH	O-acetyl
acyl	amino acid	OH	SH	SH
acyl	amino acid	ОН	SH	SMe
acyl	amino acid	OH	SH	SEt
acyl	amino acid	OH	SH	S-cyclopropyl
acyl	amino acid	OH	SH	F
acyl	amino acid	ОН	SH	Cl
acyl	amino acid	ОН	SH	Br
acyl	amino acid	ОН	SH	I
Н	acyl	OH	SH	Н
H	acyl	ОН	SH	NH ₂
Н	acyl	ОН	SH	NH-cyclopropyl
H	acyl	ОН	SH	NH-methyl
H	acyl	OH	SH	NH-ethyl
H	acyl	ОН	SH	NH-acetyl
H	acyl	OH	SH	OH
H	acyl	OH	SH	OMe
H	acyl	OH	SH	OEt
Н	acyl	OH	SH	O-cyclopropyl
Н	acyl	OH	SH	O-acetyl
H	acyl	ОН	SH	SH
H	acyl	OH_	SH_	SMe
H	acyl	OH	SH	SEt
H	acyl	OH	SH	S-cyclopropyl
H	acyl	ОН	SH	F
H	acyl	OH	SH	Cl
H	acyl	OH	SH	Br
H	acyl	OH	SH	I
H	amino acid	OH	SH	H
H	amino acid	OH	SH	NH ₂
H	amino acid	OH	SH	NH-cyclopropyl
H	amino acid	OH	SH	NH-methyl
H	amino acid	OH	SH	NH-ethyl
H	amino acid	ОН	SH	NH-acetyl
H	amino acid	OH	SH	ОН
H	amino acid	OH	SH	OMe
H	amino acid	ОН	SH	OEt
H	amino acid	ОН	SH	O-cyclopropyl
H	amino acid	ОН	SH	O-acetyl
H	amino acid	OH	SH	SH
Н	amino acid	ОН	SH	SMe

R ²	R ³	X ¹	X ²	Y
H	amino acid	OH	SH	SEt
H	amino acid	OH	SH	S-cyclopropyl
H	amino acid	OH	SH	F
Н	amino acid	OH	SH	Cl
Н	amino acid	OH	SH	Br
H	amino acid	OH	SH	Ī
amino acid	amino acid	OH	SH	H
amino acid	amino acid	OH	SH	NH ₂
amino acid	amino acid	OH	SH	NH-cyclopropyl
amino acid	amino acid	OH	SH	NH-methyl
amino acid	amino acid	OH	SH	NH-ethyl
amino acid	amino acid	OH	SH	NH-acetyl
amino acid	amino acid	ОН	SH	ОН
amino acid	amino acid	OH	SH	OMe
amino acid	amino acid	OH	SH	OEt
amino acid	amino acid	OH	SH	O-cyclopropyl
amino acid	amino acid	OH	SH	O-acetyl
amino acid	amino acid	OH	SH	SH
amino acid	amino acid	OH	SH	SMe
amino acid	amino acid	OH	SH	SEt
amino acid	amino acid	OH	SH	S-cyclopropyl
amino acid	amino acid	OH	SH	F
amino acid	amino acid	OH	SH	Cl
amino acid	amino acid	OH	SH	Br
amino acid	amino acid	OH	SH	I
amino acid	Н	OH	SH	H
amino acid	H	OH	SH	NH ₂
amino acid	H	OH	SH	NH-cyclopropyl
amino acid	Н	OH	SH	NH-methyl
amino acid	H	OH	SH	NH-ethyl
amino acid	H	OH	SH	NH-acetyl
amino acid	Н	ОН	SH	ОН
amino acid	H	OH	SH	OMe
amino acid	H	OH	SH	OEt
amino acid	Н	OH	SH	O-cyclopropyl
amino acid	H	OH	SH	O-acetyl
amino acid	Н	OH	SH	SH
amino acid	Н	OH	SH	SMe
amino acid	Н	OH	SH	SEt
amino acid	H	OH	SH	S-cyclopropyl
amino acid	H	OH	SH	F
amino acid	H	OH	SH	Cl
amino acid	H	OH	SH	Br
amino acid	H	OH	SH	I
amino acid	acyl	OH	SH	H
amino acid	acyl	OH	SH	NH ₂
amino acid	acyl	OH	SH	NH-cyclopropyl
anno acia	1 acyı	Un	1311	1111-cycloptopyl

acylacylCH3OHNH-methylacylacylCH3OHNH-ethyl	R ²	R ³	X ¹	\mathbf{X}^2	Y
amino acid acyl OH SH NH-ethyl amino acid acyl OH SH NH-acetyl amino acid acyl OH SH OH amino acid acyl OH SH OME amino acid acyl OH SH O-cyclopropyl amino acid acyl OH SH SH amino acid acyl OH SH SH amino acid acyl OH SH SH amino acid acyl OH SH SS amino acid acyl OH SH Br amino acid acyl OH SH Br acyl OH SH O	amino acid	acyl	ОН	SH	NH-methyl
amino acid acyl OH SH OH amino acid acyl OH SH OMe amino acid acyl OH SH OEt amino acid acyl OH SH OEyclopropyl amino acid acyl OH SH SH amino acid acyl OH SH SH amino acid acyl OH SH SH amino acid acyl OH SH SE amino acid acyl OH SH F amino acid acyl OH SH F amino acid acyl OH SH Br amino acid acyl OH SH	amino acid	acyl	OH	SH	
amino acid acyl OH SH OH amino acid acyl OH SH OMe amino acid acyl OH SH Oecyclopropyl amino acid acyl OH SH Oecyclopropyl amino acid acyl OH SH SH amino acid acyl OH SH SH amino acid acyl OH SH SEt amino acid acyl OH SH F amino acid acyl OH SH Br amino acid acyl OH <t< td=""><td>amino acid</td><td>acyl</td><td>OH</td><td>SH</td><td>NH-acetyl</td></t<>	amino acid	acyl	OH	SH	NH-acetyl
amino acid acyl OH SH OMe amino acid acyl OH SH OEt amino acid acyl OH SH O-cyclopropyl amino acid acyl OH SH SH amino acid acyl OH SH SMe amino acid acyl OH SH SEt amino acid acyl OH SH SEt amino acid acyl OH SH F amino acid acyl OH SH F amino acid acyl OH SH Br acyl OH SH Br acyl OH SH CH a	amino acid	acyl	OH	SH	
amino acid acyl OH SH OEt amino acid acyl OH SH O-cyclopropyl amino acid acyl OH SH O-acetyl amino acid acyl OH SH SH amino acid acyl OH SH SEt amino acid acyl OH SH F amino acid acyl OH SH F amino acid acyl OH SH F amino acid acyl OH SH Br amino acid acyl ACyl AH CH3 OH NH acyl H	amino acid		ОН		
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acyl H CH3 OH NH-methyl acyl H CH3 OH NH-ethyl acyl H CH3 OH NH-acetyl acyl H CH3 OH OH acyl H CH3 OH OMe acyl H CH3 OH O-cyclopropyl acyl H CH3 OH O-cyclopropyl acyl H CH3 OH SH acyl H CH3 OH SSH acyl H CH3 OH SEt acyl H CH3 OH F acyl H CH3 OH F acyl H CH3 OH H acyl Acyl CH3 OH NH-cyclopropy acyl Acyl CH3 OH NH-cyclopropy acyl Acyl CH3 OH NH-cyclopropy acy					
acyl H CH ₃ OH NH-ethyl acyl H CH ₃ OH NH-acetyl acyl H CH ₃ OH OH acyl H CH ₃ OH OEt acyl H CH ₃ OH O-cyclopropyl acyl H CH ₃ OH O-acetyl acyl H CH ₃ OH SH acyl H CH ₃ OH SSH acyl H CH ₃ OH SSEt acyl H CH ₃ OH F acyl H CH ₃ OH F acyl H CH ₃ OH Br acyl H CH ₃ OH H acyl Acyl CH ₃ OH NH-cyclopropy acyl acyl CH ₃ OH NH-cyclopropy acyl acyl CH ₃ OH NH-methyl <tr< td=""><td></td><td>H</td><td></td><td></td><td></td></tr<>		H			
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acyl H CH3 OH OH acyl H CH3 OH OMe acyl H CH3 OH OEt acyl H CH3 OH O-cyclopropyl acyl H CH3 OH SH acyl H CH3 OH SSH acyl H CH3 OH SEt acyl H CH3 OH S-cyclopropyl acyl H CH3 OH F acyl H CH3 OH Br acyl H CH3 OH H acyl Acyl CH3 OH NH- acyl acyl CH3 OH NH-cyclopropyl acyl acyl CH3 OH NH-methyl acyl acyl CH3 OH NH-methyl acyl acyl CH3 OH NH-methyl					+
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acyl H CH ₃ OH OEt acyl H CH ₃ OH O-cyclopropyl acyl H CH ₃ OH O-acetyl acyl H CH ₃ OH SH acyl H CH ₃ OH SMe acyl H CH ₃ OH SEt acyl H CH ₃ OH F acyl H CH ₃ OH F acyl H CH ₃ OH Br acyl H CH ₃ OH H acyl acyl CH ₃ OH NH ₂ acyl acyl CH ₃ OH NH-cyclopropy acyl acyl CH ₃ OH NH-methyl acyl acyl CH ₃ OH NH-ethyl		Н			
acyl H CH3 OH O-cyclopropyl acyl H CH3 OH O-acetyl acyl H CH3 OH SH acyl H CH3 OH SEt acyl H CH3 OH S-cyclopropyl acyl H CH3 OH F acyl H CH3 OH Br acyl H CH3 OH I acyl acyl CH3 OH NH2 acyl acyl CH3 OH NH-cyclopropy acyl acyl CH3 OH NH-methyl acyl acyl CH3 OH NH-methyl	acyl	H			+
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acyl H CH ₃ OH SH acyl H CH ₃ OH SMe acyl H CH ₃ OH SEt acyl H CH ₃ OH S-cyclopropyl acyl H CH ₃ OH F acyl H CH ₃ OH Br acyl H CH ₃ OH I acyl acyl CH ₃ OH H acyl acyl CH ₃ OH NH-cyclopropy acyl acyl CH ₃ OH NH-methyl acyl acyl CH ₃ OH NH-methyl acyl acyl CH ₃ OH NH-ethyl	acyl	H		OH	
acyl H CH ₃ OH SEt acyl H CH ₃ OH S-cyclopropyl acyl H CH ₃ OH F acyl H CH ₃ OH Cl acyl H CH ₃ OH Br acyl H CH ₃ OH I acyl acyl CH ₃ OH NH ₂ acyl acyl CH ₃ OH NH-cyclopropy acyl acyl CH ₃ OH NH-methyl acyl acyl CH ₃ OH NH-ethyl	acyl	Н		OH	
acyl H CH ₃ OH SEt acyl H CH ₃ OH S-cyclopropyl acyl H CH ₃ OH F acyl H CH ₃ OH Cl acyl H CH ₃ OH Br acyl H CH ₃ OH I acyl acyl CH ₃ OH H acyl acyl CH ₃ OH NH-cyclopropy acyl acyl CH ₃ OH NH-methyl acyl acyl CH ₃ OH NH-ethyl		Н	CH ₃	OH	SMe
acyl H CH ₃ OH S-cyclopropyl acyl H CH ₃ OH F acyl H CH ₃ OH Cl acyl H CH ₃ OH Br acyl Acyl CH ₃ OH H acyl acyl CH ₃ OH NH ₂ acyl acyl CH ₃ OH NH-cyclopropy acyl acyl CH ₃ OH NH-methyl acyl acyl CH ₃ OH NH-ethyl	acyl	Н	CH ₃	OH	SEt
acyl H CH ₃ OH F acyl H CH ₃ OH Cl acyl H CH ₃ OH Br acyl H CH ₃ OH I acyl acyl CH ₃ OH H acyl acyl CH ₃ OH NH-cyclopropy acyl acyl CH ₃ OH NH-methyl acyl acyl CH ₃ OH NH-ethyl	acyl	Н	CH ₃	OH	S-cyclopropyl
acyl H CH ₃ OH Cl acyl H CH ₃ OH Br acyl H CH ₃ OH I acyl acyl CH ₃ OH H acyl acyl CH ₃ OH NH ₂ acyl acyl CH ₃ OH NH-cyclopropy acyl acyl CH ₃ OH NH-methyl acyl acyl CH ₃ OH NH-ethyl	acyl	Н		OH	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	acyl	Н		OH	Cl
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	acyl	Н	CH ₃	OH	Br
acylacylCH3OHNH2acylacylCH3OHNH-cyclopropyacylacylCH3OHNH-methylacylacylCH3OHNH-ethyl	acyl	Н	CH ₃	OH	I
acylacylCH3OHNH-cyclopropyacylacylCH3OHNH-methylacylacylCH3OHNH-ethyl	acyl	acyl	CH ₃	OH	Н
acylacylCH3OHNH-cyclopropyacylacylCH3OHNH-methylacylacylCH3OHNH-ethyl	acyl				NH ₂
acylacylCH3OHNH-methylacylacylCH3OHNH-ethyl	acyl				NH-cyclopropyl
acyl acyl CH ₃ OH NH-ethyl	acyl				
					
[acyl acyl CH ₃ OH NH-acetyl	acyl	acyl	CH ₃	OH	NH-acetyl
acyl acyl CH ₃ OH OH	acyl	 			
acyl acyl CH ₃ OH OMe					
acyl acyl CH ₃ OH OEt					
acyl acyl CH ₃ OH O-cyclopropyl					
acyl acyl CH ₃ OH O-acetyl					
acyl acyl CH ₃ OH SH					

\mathbb{R}^2	\mathbb{R}^3	X	X ²	Y
acyl	acyl	CH ₃	OH	SMe
acyl	acyl	CH ₃	OH	SEt
acyl	acyl	CH ₃	OH	S-cyclopropyl
acyl	acyl	CH ₃	ОН	F
acyl	acyl	CH ₃	OH	Cl
acyl	acyl	CH ₃	OH	Br
acyl	acyl	CH ₃	OH	Ī
acyl	amino acid	CH ₃	OH	H
acyl	amino acid	CH ₃	OH	NH ₂
acyl	amino acid	CH ₃	OH	NH-cyclopropyl
acyl	amino acid	CH ₃	ОН	NH-methyl
acyl	amino acid	CH ₃	OH	NH-ethyl
acyl	amino acid	CH ₃	ОН	NH-acetyl
acyl	amino acid	CH ₃	OH	OH
acyl	amino acid	CH ₃	OH	OMe
acyl	amino acid	CH ₃	OH	OEt
acyl	amino acid	CH ₃	OH	O-cyclopropyl
acyl	amino acid	CH ₃	OH	Ö-acetyl
acyl	amino acid	CH ₃	OH	SH
acyl	amino acid	CH ₃	OH	SMe
acyl	amino acid	CH ₃	OH	SEt
acyl	amino acid	CH ₃	OH	S-cyclopropyl
acyl	amino acid	CH ₃	OH	F
acyl	amino acid	CH ₃	OH	Cl
acyl	amino acid	CH ₃	OH	Br
acyl	amino acid	CH ₃	ОН	I
H	acyl	CH ₃	ОН	Н
Н	acyl	CH ₃	OH	NH ₂
Н	acyl	CH ₃	ОН	NH-cyclopropyl
H	acyl	CH ₃	ОН	NH-methyl
Н	acyl	CH ₃	ОН	NH-ethyl
Н	acyl	CH ₃	OH	NH-acetyl
Н	acyl	CH ₃	OH	OH
H	acyl	CH ₃	OH	OMe
H	acyl	CH ₃	OH	OEt
Н	acyl	CH ₃	OH	O-cyclopropyl
Н	acyl	CH ₃	OH	O-acetyl
H	acyl	CH ₃	OH	SH
Н	acyl	CH ₃	OH	SMe
Н	acyl	CH ₃	OH	SEt
H	acyl	CH ₃	OH	S-cyclopropyl
H	acyl	CH ₃	OH	F
H	acyl	CH ₃	OH	CI
H	acyl	CH ₃	OH	Br
H	acyl	CH ₃	OH	I
H	amino acid	CH ₃	OH	H
H	amino acid	CH ₃	OH	NH ₂
4.1	animo aciu	CI13	Un	INIT2

R ²	R ³	\mathbf{X}^{1}	X ²	Y
H	amino acid	CH ₃	OH	NH-cyclopropyl
H	amino acid	CH ₃	OH	NH-methyl
H	amino acid	CH ₃	OH	NH-ethyl
H	amino acid	CH ₃	OH	NH-acetyl
H	amino acid	CH ₃	OH	OH
H	amino acid	CH ₃	OH	OMe
H	amino acid	CH ₃	OH	OEt
H	amino acid	CH ₃	OH	O-cyclopropyl
H	amino acid	CH ₃	OH	O-acetyl
H	amino acid	CH ₃	OH	SH
H	amino acid	CH ₃	OH	SMe
Н	amino acid	CH ₃	OH	SEt
H	amino acid	CH ₃	OH	S-cyclopropyl
Н	amino acid	CH ₃	OH	F
Н	amino acid	CH ₃	OH	Cl
H	amino acid	CH ₃	OH	Br
H	amino acid	CH ₃	OH	I
amino acid	amino acid	CH ₃	OH	H
amino acid	amino acid	CH ₃	OH	NH ₂
amino acid	amino acid	CH ₃	OH	NH-cyclopropyl
amino acid	amino acid	CH ₃	OH	NH-methyl
amino acid	amino acid	CH ₃	OH	NH-ethyl
amino acid	amino acid	CH ₃	OH	NH-acetyl
amino acid	amino acid	CH ₃	OH	ОН
amino acid	amino acid	CH ₃	OH	OMe
amino acid	amino acid	CH ₃	OH	OEt
amino acid	amino acid	CH ₃	OH	O-cyclopropyl
amino acid	amino acid	CH ₃	ОН	O-acetyl
amino acid	amino acid	CH ₃	OH	SH
amino acid	amino acid	CH ₃	OH	SMe
amino acid	amino acid	CH ₃	OH	SEt
amino acid	amino acid	CH ₃	OH	S-cyclopropyl
amino acid	amino acid	CH ₃	OH	F
amino acid	amino acid	CH ₃	OH	Cl
amino acid	amino acid	CH₃	OH	Br
amino acid	amino acid	CH ₃	OH	I
amino acid	H	CH ₃	OH	H
amino acid	H	CH ₃	OH	NH ₂
amino acid	H	CH ₃	OH	NH-cyclopropyl
amino acid	H	CH₃	OH	NH-methyl
amino acid	Н	CH ₃	ОН	NH-ethyl
amino acid	Н	CH ₃	OH	NH-acetyl
amino acid	Н	CH ₃	OH	OH
amino acid	Н	CH ₃	OH	OMe
amino acid	Н	CH ₃	OH	OEt
amino acid	Н	CH ₃	OH	O-cyclopropyl
amino acid	Н	CH ₃	OH	O-acetyl

amino acid amino acid amino acid	H H	CH ₃	OH	
amino acid	U		Un	SH
amino acid	11	CH ₃	OH	SMe
	H	CH ₃	OH	SEt
	H	CH ₃	OH	S-cyclopropyl
amino acid	H	CH ₃	OH	F
amino acid	H	CH ₃	OH	Cl
amino acid	H	CH ₃	OH	Br
amino acid	H	CH ₃	OH	I
amino acid	acyl	CH ₃	OH	Н
amino acid	acyl	CH ₃	OH	NH ₂
	acyl	CH ₃	ОН	NH-cyclopropyl
	acyl	CH ₃	ОН	NH-methyl
	acyl	CH ₃	OH	NH-ethyl
	acyl	CH ₃	OH	NH-acetyl
	acyl	CH ₃	OH	OH
	acyl	CH ₃	OH	OMe
	acyl	CH ₃	OH	OEt
	acyl	CH ₃	ОН	O-cyclopropyl
	acyl	CH ₃	OH	O-acetyl
	acyl	CH ₃	ОН	SH
	acyl	CH ₃	OH	SMe
	acyl	CH ₃	OH	SEt
	acyl	CH ₃	ОН	S-cyclopropyl
	acyl	CH ₃	OH	F
	acyl	CH ₃	ОН	Cl
amino acid	acyl	CH ₃	OH	Br
amino acid	acyl	CH ₃	OH	I
	Н	CF ₃	ОН	H
acyl	H	CF ₃	OH	NH ₂
acyl	H	CF ₃	OH	NH-cyclopropyl
acyl	Н	CF ₃	ОН	NH-methyl
acyl	H	CF ₃	ОН	NH-ethyl
acyl	H	CF ₃	ОН	NH-acetyl
	H	CF ₃	OH	ОН
acyl	H	CF ₃	ОН	OMe
acyl	H	CF ₃	ОН	OEt
acyl	Н	CF ₃	OH	O-cyclopropyl
acyl	Н	CF ₃	OH	O-acetyl
acyl	H	CF ₃	OH	SH
acyl	H	CF ₃	OH	SMe
acyl	Н	CF ₃	OH	SEt
acyl	Н	CF ₃	OH	S-cyclopropyl
	H	CF ₃	OH	F
	H	CF ₃	ОН	Cl
	H	CF ₃	ОН	Br
	Н	CF ₃	OH	I
	acyl	CF ₃	OH	H

R ²	\mathbb{R}^3	X ¹	X ²	Y
acyl	acyl	CF ₃	OH	NH ₂
acyl	acyl	CF ₃	OH	NH-cyclopropyl
acyl	acyl	CF ₃	OH	NH-methyl
acyl	acyl	CF ₃	OH	NH-ethyl
acyl	acyl	CF ₃	OH	NH-acetyl
acyl	acyl	CF ₃	OH	ОН
acyl	acyl	CF ₃	OH	OMe
acyl	acyl	CF ₃	OH	OEt
acyl	acyl	CF ₃	OH	O-cyclopropyl
acyl	acyl	CF ₃	OH	O-acetyl
acyl	acyl	CF ₃	OH	SH
acyl	acyl	CF ₃	OH	SMe
acyl	acyl	CF ₃	OH	SEt
acyl	acyl	CF ₃	OH	S-cyclopropyl
acyl	acyl	CF ₃	OH	F
acyl	acyl	CF ₃	OH	Cl
acyl	acyl	CF ₃	ОН	Br
acyl	acyl	CF ₃	OH	Ī
acyl	amino acid	CF ₃	ОН	H
acyl	amino acid	CF ₃	OH	NH ₂
acyl	amino acid	CF ₃	OH	NH-cyclopropyl
acyl	amino acid	CF ₃	OH	NH-methyl
acyl	amino acid	CF ₃	OH	NH-ethyl
acyl	amino acid	CF ₃	OH	NH-acetyl
acyl	amino acid	CF ₃	OH	OH
acyl	amino acid	CF ₃	OH	OMe
acyl	amino acid	CF ₃	OH	OEt
acyl	amino acid	CF ₃	OH	O-cyclopropyl
acyl	amino acid	CF ₃	OH	O-acetyl
acyl	amino acid	CF ₃	ОН	SH
acyl	amino acid	CF ₃	OH	SMe
acyl	amino acid	CF ₃	OH	SEt
acyl	amino acid	CF ₃	OH	S-cyclopropyl
acyl	amino acid	CF ₃	ОН	F
acyl	amino acid	CF ₃	OH	Cl
acyl	amino acid	CF ₃	OH	Br
acyl	amino acid	CF ₃	OH	I
Н	acyl	CF ₃	OH	H
H	acyl	CF ₃	OH	NH ₂
Н	acyl	CF ₃	OH	NH-cyclopropyl
H	acyl	CF ₃	OH	NH-methyl
Н	acyl	CF ₃	OH	NH-ethyl
H	acyl	CF ₃	OH	NH-acetyl
Н	acyl	CF ₃	OH	OH
Н	acyl	CF ₃	OH	OMe
Н	acyl	CF ₃	ОН	OEt
Н	acyl	CF ₃	ОН	O-cyclopropyl

R ²	R ³	X	X ²	Y
Н	acyl	CF ₃	OH	O-acetyl
Н	acyl	CF ₃	OH	SH
Н	acyl	CF ₃	OH	SMe
H	acyl	CF ₃	OH	SEt
H	acyl	CF ₃	OH	S-cyclopropyl
H	acyl	CF ₃	ОН	F
Н	acyl	CF ₃	ОН	Cl
Н	acyl	CF ₃	OH	Br
H	acyl	CF ₃	OH	I
Н	amino acid	CF ₃	ОН	Н
Н	amino acid	CF ₃	OH	NH ₂
Н	amino acid	CF ₃	ОН	NH-cyclopropyl
Н	amino acid	CF ₃	OH	NH-methyl
Н	amino acid	CF ₃	OH	NH-ethyl
H	amino acid	CF ₃	OH	NH-acetyl
H	amino acid	CF ₃	OH	ОН
H	amino acid	CF ₃	ОН	OMe
Н	amino acid	CF ₃	ОН	OEt
H	amino acid	CF ₃	OH	O-cyclopropyl
Н	amino acid	CF ₃	OH	O-acetyl
H	amino acid	CF ₃	OH	SH
H	amino acid	CF ₃	OH	SMe
Н	amino acid	CF ₃	ОН	SEt
Н	amino acid	CF ₃	OH	S-cyclopropyl
H	amino acid	CF ₃	OH	F
H	amino acid	CF ₃	OH	Cl
Н	amino acid	CF ₃	OH	Br
Н	amino acid	CF ₃	OH	Ī
amino acid	amino acid	CF ₃	OH	Н
amino acid	amino acid	CF ₃	OH	NH ₂
amino acid	amino acid	CF ₃	OH	NH-cyclopropyl
amino acid	amino acid	CF ₃	OH	NH-methyl
amino acid	amino acid	CF ₃	OH	NH-ethyl
amino acid	amino acid	CF ₃	OH	NH-acetyl
amino acid	amino acid	CF ₃	OH	OH
amino acid	amino acid	CF ₃	OH	OMe
amino acid	amino acid	CF ₃	OH	OEt
amino acid	amino acid	CF ₃	OH	O-cyclopropyl
amino acid	amino acid	CF ₃	OH	O-acetyl
amino acid	amino acid	CF ₃	ОН	SH
amino acid	amino acid	CF ₃	OH	SMe
amino acid	amino acid	CF ₃	ОН	SEt
amino acid	amino acid	CF ₃	OH	S-cyclopropyl
amino acid	amino acid	CF ₃	OH	F
amino acid	amino acid	CF ₃	OH	CI
amino acid	amino acid	CF ₃	OH	Br
amino acid	amino acid	CF ₃	OH	I

\mathbb{R}^2	\mathbb{R}^3	X^1	X ²	Y
amino acid	H	CF ₃	OH	Н
amino acid	Н	CF ₃	OH	NH ₂
amino acid	H	CF ₃	OH	NH-cyclopropyl
amino acid	H	CF ₃	OH	NH-methyl
amino acid	Н	CF ₃	ОН	NH-ethyl
amino acid	H	CF ₃	ОН	NH-acetyl
amino acid	H	CF ₃	ОН	OH
amino acid	Н	CF ₃	OH	OMe
amino acid	H	CF ₃	ОН	OEt
amino acid	Н	CF ₃	OH	O-cyclopropyl
amino acid	Н	CF ₃	OH	O-acetyl
amino acid	Н	CF ₃	ОН	SH
amino acid	H	CF ₃	OH	SMe
amino acid	Н	CF ₃	ОН	SEt
amino acid	Н	CF ₃	ОН	S-cyclopropyl
amino acid	H	CF ₃	OH	F
amino acid	Н	CF ₃	OH	Cl
amino acid	Н	CF ₃	OH	Br
amino acid	Н	CF ₃	OH	I
amino acid	acyl	CF ₃	OH	H
amino acid	acyl	CF ₃	OH	NH ₂
amino acid	acyl	CF ₃	OH	NH-cyclopropyl
amino acid	acyl	CF ₃	OH	NH-methyl
amino acid	acyl	CF ₃	OH	NH-ethyl
amino acid	acyl	CF ₃	OH	NH-acetyl
amino acid	acyl	CF ₃	OH	OH
amino acid	acyl	CF ₃	OH	OMe
amino acid	acyl	CF ₃	OH	OEt
amino acid	acyl	CF ₃	OH	O-cyclopropyl
amino acid	acyl	CF ₃	OH	O-acetyl
amino acid	acyl	CF ₃	OH	SH
amino acid	acyl	CF ₃	OH	SMe
amino acid	acyl	CF ₃	OH	SEt
amino acid	acyl	CF ₃	OH	S-cyclopropyl
amino acid	acyl	CF ₃	OH	F
amino acid	acyl	CF ₃	OH	Cl
amino acid	acyl	CF ₃	OH	Br
amino acid	acyl	CF ₃	OH	I
acyl	H	Br	OH	H
acyl	H	Br	OH	NH ₂
acyl	H	Br	OH	NH-cyclopropyl
acyl	H	Br	ОН	NH-methyl
acyl	Н	Br	ОН	NH-ethyl
acyl	H	Br	OH	NH-acetyl
acyl	Н	Br	OH	ОН
acyl	Н	Br	OH	OMe
acyl	H	Br	OH	OEt

R ²	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
acyl	Н	Br	OH	O-cyclopropyl
acyl	Н	Br	OH	O-acetyl
acyl	Н	Br	OH	SH
acyl	Н	Br	OH	SMe
acyl	Н	Br	OH	SEt
acyl	H	Br	OH	S-cyclopropyl
acyl	H	Br	OH	F
acyl	Н	Br	OH	Cl
acyl	Н	Br	OH	Br
acyl	Н	Br	OH	I
acyl	acyl	Br	OH	Н
acyl	acyl	Br	.OH	NH ₂
acyl	acyl	Br	OH	NH-cyclopropyl
acyl	acyl	Br	OH	NH-methyl
acyl	acyl	Br	OH	NH-ethyl
acyl	acyl	Br	ОН	NH-acetyl
acyl	acyl	Br	OH	OH
acyl	acyl	Br	OH	OMe
acyl	acyl	Br	OH	OEt
acyl	acyl	Br	OH	O-cyclopropyl
acyl	acyl	Br	ОН	O-acetyl
acyl	acyl	Br	OH	SH
acyl	acyl	Br	OH	SMe
acyl	acyl	Br	OH	SEt
acyl	acyl	Br	OH	S-cyclopropyl
acyl	acyl	Br	OH	F
acyl	acyl	Br	OH	Cl
acyl	acyl	Br	OH	Br
acyl	acyl	Br	OH	I
acyl	amino acid	Br	ОН	Н
acyl	amino acid	Br	OH	NH ₂
acyl	amino acid	Br	ОН	NH-cyclopropyl
acyl	amino acid	Br	ОН	NH-methyl
acyl	amino acid	Br	OH	NH-ethyl
acyl	amino acid	Br	OH	NH-acetyl
acyl	amino acid	Br	OH	OH
acyl	amino acid	Br	OH	OMe
acyl	amino acid	Br	OH	OEt
acyl	amino acid	Br	OH	O-cyclopropyl
acyl	amino acid	Br	ОН	O-acetyl
acyl	amino acid	Br	OH	SH
acyl	amino acid	Br	OH	SMe
acyl	amino acid	Br	OH	SEt
acyl	amino acid	Br	OH	S-cyclopropyl
acyl	amino acid	Br	OH	F
acyl	amino acid	Br	OH	Cl
ucy1	animo acid	DI	JULI	J CI

R ²	\mathbb{R}^3	X	X ²	Y
acyl	amino acid	Br	OH	I
H	acyl	Br	OH	Н
Н	acyl	Br	OH	NH ₂
Н	acyl	Br	ОН	NH-cyclopropyl
Н	acyl	Br	OH	NH-methyl
Н	acyl	Br	ОН	NH-ethyl
H	acyl	Br	OH	NH-acetyl
H	acyl	Br	OH	ОН
Н	acyl	Br	OH	OMe
Н	acyl	Br	OH	OEt
Н	acyl	Br	OH	O-cyclopropyl
Н	acyl	Br	OH	O-acetyl
H	acyl	Br	OH	SH
Н	acyl	Br	OH	SMe
H	acyl	Br	OH	SEt
Н	acyl	Br	OH	S-cyclopropyl
H	acyl	Br	ОН	F
H	acyl	Br	OH	Cl
H	acyl	Br	OH	Br
Н	acyl	Br	OH	I
H	amino acid	Br	OH	H
H	amino acid	Br	ОН	NH ₂
H	amino acid	Br	OH	NH-cyclopropyl
H	amino acid	Br	ОН	NH-methyl
Н	amino acid	Br	OH	NH-ethyl
H	amino acid	Br	OH	NH-acetyl
Н	amino acid	Br	OH	ОН
Н	amino acid	Br	OH	OMe
Н	amino acid	Br	OH	OEt
Н	amino acid	Br	OH	O-cyclopropyl
H	amino acid	Br	OH	O-acetyl
H	amino acid	Br	OH	SH
Н	amino acid	Br	OH	SMe
H	amino acid	Br	OH	SEt
H	amino acid	Br	OH	S-cyclopropyl
H	amino acid	Br	OH	F
H	amino acid	Br	OH	Cl
<u>H</u>	amino acid	Br	OH	_Br
H	amino acid	Br	OH	I
amino acid	amino acid	Br	OH	H
amino acid	amino acid	Br	OH	NH ₂
amino acid	amino acid	Br	OH	NH-cyclopropyl
amino acid	amino acid	Br	OH	NH-methyl
amino acid	amino acid	Br	OH	NH-ethyl
amino acid	amino acid	Br	OH	NH-acetyl
amino acid	amino acid	Br	ОН	OH
amino acid	amino acid	Br	OH	OMe

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	amino acid	Br	OH	OEt
amino acid	amino acid	Br	OH	O-cyclopropyl
amino acid	amino acid	Br	ОН	O-acetyl
amino acid	amino acid	Br	ОН	SH
amino acid	amino acid	Br	OH	SMe
amino acid	amino acid	Br	OH	SEt
amino acid	amino acid	Br	OH	S-cyclopropyl
amino acid	amino acid	Br	OH	F
amino acid	amino acid	Br	OH	Cl
amino acid	amino acid	Br	OH	Br
amino acid	amino acid	Br	OH	I
amino acid	Н	Br	OH	H
amino acid	H	Br	OH	NH ₂
amino acid	H	Br	OH	NH-cyclopropyl
amino acid	H	Br	OH	NH-methyl
amino acid	H	Br	OH	NH-ethyl
amino acid	H	Br	OH	NH-acetyl
amino acid	H	Br	OH	OH
amino acid	H	Br	OH	OMe
amino acid	H	Br	OH	OEt
amino acid	H	Br	OH	O-cyclopropyl
amino acid	H	Br	OH	O-acetyl
amino acid	Н	Br	OH	SH
amino acid	H	Br	OH	SMe
amino acid	H	Br	OH	SEt
amino acid	Н	Br	ОН	S-cyclopropyl
amino acid	Н	Br	OH	F
amino acid	H	Br	OH	Cl
amino acid	H	Br	OH	Br
amino acid	Н	Br	OH	I
amino acid	acyl	Br	OH	Н
amino acid	acyl	Br	OH	NH ₂
amino acid	acyl	Br	OH	NH-cyclopropyl
amino acid	acyl	Br	OH	NH-methyl
amino acid	acyl	Br	OH	NH-ethyl
amino acid	acyl	Br	OH	NH-acetyl
amino acid	acyl	Br	OH	ОН
-amino-acid	acyl	-Br-	OH	OMe
amino acid	acyl	Br	OH	OEt
amino acid	acyl	Br	OH	O-cyclopropyl
amino acid	acyl	Br	OH	O-acetyl
amino acid	acyl	Br	ОН	SH
amino acid	acyl	Br	OH	SMe
amino acid	acyl	Br	OH	SEt
amino acid	acyl	Br	OH	S-cyclopropyl
amino acid	acyl	Br	OH	F
amino acid	acyl	Br	OH	CI
	1			1 01

\mathbb{R}^2	R ³	X	X ²	Y
amino acid	acyl	Br	OH	Br
amino acid	acyl	Br	OH	I
acyl	Н	Cl	OH	H
acyl	Н	Cl	OH	NH ₂
acyl	Н	Cl	OH	NH-cyclopropyl
acyl	H	Cl	OH	NH-methyl
acyl	Н	Cl	OH	NH-ethyl
acyl	Н	Cl	OH	NH-acetyl
acyl	H	Cl	OH	OH
acyl	Н	CI	OH	OMe
acyl	H	Cl	OH	OEt
acyl	Н	Cl	OH	O-cyclopropyl
acyl	H	Cl	OH	O-acetyl
acyl .	Н	Cl	OH	SH
acyl	Н	Cl	OH	SMe
acyl	Н	Cl	OH	SEt
acyl	Н	Cl	OH	S-cyclopropyl
acyl	H	Cl	OH	F
acyl	H	Cl	OH	Cl
acyl	H	Cl	OH	Br
acyl	Н	Cl	OH	I
acyl	acyl	Cl	OH	Н
acyl	acyl	Cl	OH	NH ₂
acyl	acyl	Cl	OH	NH-cyclopropyl
acyl	acyl	Cl	OH	NH-methyl
acyl	acyl	Cl	OH	NH-ethyl
acyl	acyl	Cl	OH	NH-acetyl
acyl	acyl	Cl	OH	OH
acyl	acyl	Ci	OH	OMe
acyl	acyl	Cl	OH	OEt
acyl	acyl	C1	OH	O-cyclopropyl
acyl	acyl	Cl	OH	O-acetyl
acyl	acyl	Cl	OH	SH
acyl	acyl	Cl	ОН	SMe
acyl	acyl	Cl	ОН	SEt
acyl	acyl	Cl	OH	S-cyclopropyl
acyl	acyl	Cl	OH	F
-acyl	acyl	Cl	_OH_	-Cl
acyl	acyl	Cl	OH	Br
acyl	acyl	Cl	OH	I
acyl	amino acid	Cl	OH	Н
acyl	amino acid	Cl	OH	NH ₂
acyl	amino acid	Cl	OH	NH-cyclopropyl
acyl	amino acid	Cl	OH	NH-methyl
acyl	amino acid	CI	OH	NH-ethyl
acyl	amino acid	Cl	OH	NH-acetyl
acyl	amino acid	Cl	OH	OH

R ²	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
acyl	amino acid	Cl	OH	OMe
acyl	amino acid	Cl	OH	OEt
acyl	amino acid	Cl	OH	O-cyclopropyl
acyl	amino acid	Cl	OH	O-acetyl
acyl	amino acid	Cl ,	OH	SH
acyl	amino acid	Cl	ОН	SMe
acyl	amino acid	Cl	OH	SEt
acyl	amino acid	Cl	OH	S-cyclopropyl
acyl	amino acid	Cl	OH	F
acyl	amino acid	Cl	OH	Cl
acyl	amino acid	Cl	OH	Br
acyl	amino acid	Cl	OH	I
H	acyl	Cl	OH	Н
Н	acyl	Cl	ОН	NH ₂
H	acyl	Cl	ÓН	NH-cyclopropyl
Н	acyl	Cl	OH	NH-methyl
H	acyl	Cl	OH	NH-ethyl
H	acyl	Cl	ОН	NH-acetyl
H	acyl	Cl	OH	ОН
H	acyl	Cl	ОН	OMe
Н	acyl	Cl	OH	OEt
H	acyl	Cl	ОН	O-cyclopropyl
H	acyl	Cl	ОН	O-acetyl
Н	acyl	Cl	OH	SH
Н	acyl	Cl	OH	SMe
H	acyl	Cl	OH	SEt
Н	acyl	Cl	OH	S-cyclopropyl
H	acyl	Cl	ОН	F
H	acyl	Cl	OH	Cl
Н	acyl	Cl	OH	Br
H	acyl	Cl	ОН	I
H	amino acid	Cl	OH	H
H	amino acid	Cl	OH	NH ₂
H	amino acid	Cl	OH	NH-cyclopropyl
H	amino acid	Cl	OH	NH-methyl
H	amino acid	Cl	OH	NH-ethyl
H	amino acid	Cl	ОН	NH-acetyl
H	amino acid	_Cl	OH	_OH
H	amino acid	Cl	ОН	OMe
H	amino acid	Cl	ОН	OEt
Н	amino acid	Cl	ОН	O-cyclopropyl
H	amino acid	Cl	OH	O-acetyl
H	amino acid	Cl	OH	SH
H	amino acid	Cl	ОН	SMe
	 			
Н	amino acid	Cl	OH	SEt
H H H	 	Cl Cl	OH OH	SEt S-cyclopropyl F

R ²	\mathbb{R}^3	X ¹	X ²	Y
Н	amino acid	Cl	OH	Cl
H	amino acid	Cl	OH	Br
H	amino acid	Cl	OH	I
amino acid	amino acid	Cl	OH	H
amino acid	amino acid	Cl	OH	NH ₂
amino acid	amino acid	CI	OH	NH-cyclopropyl
amino acid	amino acid	CI	OH	NH-methyl
amino acid	amino acid	Cl	OH	NH-ethyl
amino acid	amino acid	Cl	OH	NH-acetyl
amino acid	amino acid	Cl	OH	OH
amino acid	amino acid	Cl	OH	OMe
amino acid	amino acid	Cl	OH	OEt
amino acid	amino acid	Cl	OH	O-cyclopropyl
amino acid	amino acid	Cl	OH	O-acetyl
amino acid	amino acid	Cl	OH	SH
amino acid	amino acid	Cl	OH	SMe
amino acid	amino acid	Cl	OH	SEt
amino acid	amino acid	Cl	OH	S-cyclopropyl
amino acid	amino acid	Ci	OH	F
amino acid	amino acid	Cl	OH	Cl
amino acid	amino acid	Cl	OH	Br
amino acid	amino acid	Cl	OH	I
amino acid	Н	Cl	OH	H
amino acid	Н	Cl	OH	NH ₂
amino acid	Н	Cl	OH	NH-cyclopropyl
amino acid	Н	Cl	OH	NH-methyl
amino acid	Н	Cl	ОН	NH-ethyl
amino acid	Н	Cl	OH	NH-acetyl
amino acid	Н	Cl	OH	ОН
amino acid	Н	Cl	OH	OMe
amino acid	Н	Cl	OH	OEt
amino acid	H	Cl	OH	O-cyclopropyl
amino acid	H	Cl	OH	O-acetyl
amino acid	H	Cl	OH	SH
amino acid	H	Cl	OH	SMe
amino acid	H	Cl	OH	SEt
amino acid	H	Cl	OH	S-cyclopropyl
-amino-acid	Н	Cl	OH	F
amino acid	Н	Cl	ОН	Cl
amino acid	Н	CI	OH	Br
amino acid	Н	CI	OH	I
amino acid	acyl	Cl	OH	H
amino acid	acyl	CI	OH	NH ₂
amino acid	acyl	CI	OH	NH-cyclopropyl
amino acid	acyl	Cl	OH	NH-methyl
amino acid	acyl	CI	OH	NH-ethyl
amino acid	acyl	CI	OH	NH-acetyl
	acyi		UII	ivii-acetyi

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	acyl	Cl	OH	OH
amino acid	acyl	Cl	OH	OMe
amino acid	acyl	Cl	OH	OEt
amino acid	acyl	Cl	OH	O-cyclopropyl
amino acid	acyl	Cl	OH	O-acetyl
amino acid	acyl	Cl	OH	SH
amino acid	acyl	Cl	OH	SMe
amino acid	acyl	Cl	OH	SEt
amino acid	acyl	Cl	OH	S-cyclopropyl
amino acid	acyl	Cl	OH	F
amino acid	acyl	Cl	ОН	Cl
amino acid	acyl	Cl	OH	Br
amino acid	acyl	Cl	ОН	I
acyl	Н	F	OH	Н
acyl	H	F	ОН	NH ₂
acyl	H	F	ОН	NH-cyclopropyl
acyl	H	F	OH	NH-methyl
acyl	Н	F	ОН	NH-ethyl
acyl	H	F	OH	NH-acetyl
acyl	Н	F	ОН	OH
acyl	H	F	ОН	OMe
acyl	H	F	OH	OEt
acyl	H	F	OH	O-cyclopropyl
acyl	H	F	OH	O-acetyl
acyl	H	F	OH	SH
acyl	H	F	OH	SMe
acyl	Н	F	OH	SEt
acyl	H	F	OH	S-cyclopropyl
acyl	H	F	ОН	F
acyl	Н	F	OH	Cl
acyl	H	F	OH	Br
acyl	Н	F	OH	I
acyl	acyl	F	OH	H
acyl	acyl	F	OH	NH ₂
acyl	acyl	F	OH	NH-cyclopropyl
acyl	acyl	F	OH	NH-methyl
acyl	acyl	F	ОН	NH-ethyl
acyl	acyl	F	OH	NH-acetyl
acyl	acyl	F	OH	ОН
acyl	acyl	F	OH	OMe
acyl	acyl	F	ОН	OEt
acyl	acyl	F	OH	O-cyclopropyl
acyl	acyl	F	OH	O-acetyl
acyl	acyl	F	ОН	SH
acyl	acyl	F	OH	SMe
acyl	acyl	F	OH	SEt
acyl	acyl	F	OH	S-cyclopropyl

\mathbb{R}^2	R ³	X ¹	\mathbf{X}^2	Ý
acyl	acyl	F	OH	F
acyl	acyl	F	OH	Cl
acyl	acyl	F	OH	Br
acyl	acyl	F	OH	I
acyl	amino acid	F	OH	Н
acyl	amino acid	F	ОН	NH ₂
acyl	amino acid	F	ОН	NH-cyclopropyl
acyl	amino acid	F	OH	NH-methyl
acyl	amino acid	F	ОН	NH-ethyl
acyl	amino acid	F	OH	NH-acetyl
acyl	amino acid	F	OH	ОН
acyl	amino acid	F	OH	OMe
acyl	amino acid	F	OH	OEt
acyl	amino acid	F	OH	O-cyclopropyl
acyl	amino acid	F	OH	O-acetyl
acyl	amino acid	F	OH	SH
acyl	amino acid	F	OH	SMe
acyl	amino acid	$\frac{\Gamma}{F}$	OH	SEt
acyl	amino acid	F	OH	S-cyclopropyl
acyl	amino acid	F	OH	F S-cyclopropyr
acyl	amino acid	F	OH	Cl
acyl	amino acid	F	OH	Br
acyl	amino acid	F	OH	I
Н	acyl	F	OH	H
H	acyl	F	OH	NH ₂
H	acyl	F	OH	NH-cyclopropyl
H	acyl	F	OH	NH-methyl
H	acyl	F	OH	NH-ethyl
H	acyl	F	OH	NH-acetyl
H	acyl	F	OH	OH
H	acyl	F	OH	OMe
H	acyl	F	OH	OEt
H	acyl	F	OH	
H	acyl	F	OH	O-cyclopropyl
H	acyl	F	OH	O-acetyl SH
H	acyl	F	OH	SMe
H	acyl	F		SEt
H		F	OH	
H	-acyl	F	OH	S-cyclopropyl F
H	acyl	$\frac{ \mathbf{F} }{\mathbf{F}}$	OH	
	acyl		OH	Cl
H	acyl	F	OH	Br
H	acyl	F	OH	I
H	amino acid	F	OH	H
H	amino acid	F	OH	NH ₂
H	amino acid	F	OH	NH-cyclopropyl
Н	amino acid	F	OH	NH-methyl
Н	amino acid	F	OH	NH-ethyl

\mathbb{R}^2	\mathbb{R}^3	X^1	X ²	Y
H	amino acid	F	OH	NH-acetyl
Н	amino acid	F	OH	OH
Н	amino acid	F	OH	OMe
Н	amino acid	F	OH	OEt
Н	amino acid	F	OH	O-cyclopropyl
Н	amino acid	F	ОН	O-acetyl
Н	amino acid	F	OH	SH
Н	amino acid	F	OH	SMe
Н	amino acid	F	OH	SEt
H	amino acid	F	OH	S-cyclopropyl
Н	amino acid	F	OH	F
Н	amino acid	F	OH	Cl
Н	amino acid	F	OH	Br
H	amino acid	F	OH	I
amino acid	amino acid	F	OH	H
amino acid	amino acid	F	OH	NH ₂
amino acid	amino acid	F	OH	NH-cyclopropyl
amino acid	amino acid	F	OH	NH-methyl
amino acid	amino acid	F	OH	NH-ethyl
amino acid	amino acid	F	OH	NH-acetyl
amino acid	amino acid	F	OH	ОН
amino acid	amino acid	F	OH	OMe
amino acid	amino acid	F :	OH	OEt
amino acid	amino acid	F	OH	O-cyclopropyl
amino acid	amino acid	F	OH	O-acetyl
amino acid	amino acid	F	ОН	SH
amino acid	amino acid	F	OH	SMe
amino acid	amino acid	F	OH	SEt
amino acid	amino acid	F	ОН	S-cyclopropyl
amino acid	amino acid	F	ОН	F
amino acid	amino acid	F	OH	Cl
amino acid	amino acid	F	OH	Br
amino acid	amino acid	F	OH	I
amino acid	H	F	OH	H
amino acid	H	F	OH .	NH ₂
amino acid	H	F	OH	NH-cyclopropyl
amino acid	H	F	OH	NH-methyl
amino acid	H	F	OH	NH-ethyl
amino acid	H	F	ОН	NH-acetyl
amino acid	H	F	OH	ОН
amino acid	H	F	OH	OMe
amino acid	H	F	ОН	OEt
amino acid	H	F	OH	O-cyclopropyl
amino acid	Н	F	OH	O-acetyl
amino acid	H	F	OH	SH
amino acid	H	F	OH	SMe
amino acid	H	F	OH	SEt

R ²	\mathbb{R}^3	X¹	\mathbf{X}^2	Y
amino acid	Н	F	OH	S-cyclopropyl
amino acid	Н	F	OH	F
amino acid	H	F	ОН	Cl
amino acid	Н	F	OH	Br
amino acid	H	F	OH	I
amino acid	acyl	F	OH	H
amino acid	acyl	F	OH	NH ₂
amino acid	acyl	F	OH	NH-cyclopropyl
amino acid	acyl	F	OH	NH-methyl
amino acid	acyl	F	OH	NH-ethyl
amino acid	acyl	F	OH	NH-acetyl
amino acid	acyl	F	OH	OH
amino acid	acyl	F F	OH	OMe
amino acid				
	acyl	$\frac{F}{F}$	OH	OEt
amino acid	acyl	F	OH	O-cyclopropyl
amino acid	acyl	F	OH	O-acetyl
amino acid	acyl	<u> </u>	OH	SH
amino acid	acyl	F	OH	SMe
amino acid	acyl	F	OH	SEt
amino acid	acyl	F	OH	S-cyclopropyl
amino acid	acyl	F	OH	F
amino acid	acyl	F	OH	Cl
amino acid	acyl	F	OH	Br
amino acid	acyl	F	OH	I
acyl	H	NH ₂	OH	H
acyl	H	NH ₂	OH	NH ₂
acyl	Н	NH ₂	OH	NH-cyclopropyl
acyl	H	NH ₂	OH	NH-methyl
acyl	H	NH ₂	OH	NH-ethyl
acyl	H	NH ₂	OH	NH-acetyl
acyl	H	NH ₂	OH	OH
acyl	H_	NH ₂	OH	OMe
acyl	H	NH ₂	OH	OEt
acyl	H	NH ₂	OH	O-cyclopropyl
acyl	Н	NH ₂	OH	O-acetyl
acyl	Н	NH ₂	OH	SH
acyl	Н	NH ₂	ОН	SMe
acyl	Н	NH ₂	ОН	SEt
acyl	H	NH ₂	ОН	S-cyclopropyl
acyl	H	NH ₂	ОН	F
acyl	H	NH ₂	OH	Cl
acyl	H	NH ₂	OH	Br
acyl	H	NH ₂	OH	I
acyl	acyl	NH ₂	OH	H
acyl	acyl	NH ₂	OH	NH ₂
acyl			OH	
	acyl	NH ₂		NH-cyclopropyl
acyl	acyl	NH ₂	OH	NH-methyl

R ²	R ³	X ¹	X ²	Y
acyl	acyl	NH ₂	OH	NH-ethyl
acyl	acyl	NH ₂	OH	NH-acetyl
acyl	acyl	NH ₂	ОН	ОН
acyl	acyl	NH ₂	OH	OMe
acyl	acyl	NH ₂	OH	OEt
acyl	acyl	NH ₂	OH	O-cyclopropyl
acyl	acyl	NH ₂	ОН	O-acetyl
acyl	acyl	NH ₂	OH	SH
acyl	acyl	NH ₂	OH	SMe
acyl	acyl	NH ₂	OH	SEt
acyl	acyl	NH ₂	OH	S-cyclopropyl
acyl	acyl	NH ₂	OH	F
acyl	acyl	NH ₂	OH	CI
acyl	acyl	NH ₂	OH	Br
acyl	acyl	NH ₂	OH	I
acyl	amino acid	NH ₂	ОН	Н
acyl	amino acid	NH ₂	OH	NH ₂
acyl	amino acid	NH ₂	ОН	NH-cyclopropyl
acyl	amino acid	NH ₂	OH	NH-methyl
acyl	amino acid	NH ₂	ОН	NH-ethyl
acyl	amino acid	NH ₂	ОН	NH-acetyl
acyl	amino acid	NH ₂	OH	OH
acyl	amino acid	NH ₂	ОН	OMe
acyl	amino acid	NH ₂	OH	OEt
acyl	amino acid	NH ₂	OH	O-cyclopropyl
acyl	amino acid	NH ₂	ОН	O-acetyl
acyl	amino acid	NH ₂	OH	SH
acyl	amino acid	NH ₂	OH	SMe
acyl	amino acid	NH ₂	OH	SEt
acyl	amino acid	NH ₂	ОН	S-cyclopropyl
acyl	amino acid	NH ₂	OH	F
acyl	amino acid	NH ₂	OH	Cl
acyl	amino acid	NH ₂	OH	Br
acyl	amino acid	NH ₂	OH	I
H	acyl	NH ₂	OH	Н
H	acyl	NH ₂	OH	NH ₂
Н	acyl	NH ₂	OH	NH-cyclopropyl
H	acyl	NH ₂	OH	NH-methyl
H	acyl	NH ₂	OH	NH-ethyl
Н	acyl	NH ₂	OH	NH-acetyl
H	acyl	NH ₂	OH	OH
H	acyl	NH ₂	OH	OMe
Н	acyl	NH ₂	OH	OEt
H	acyl	NH ₂	OH	O-cyclopropyl
Н	acyl	NH ₂	OH	O-acetyl
H	acyl	NH ₂	OH	SH
H	acyl	NH ₂	ОН	SMe

R ²	R ³	X ¹	X ²	Y
H	acyl	NH ₂	OH	SEt
H	acyl	NH ₂	OH	S-cyclopropyl
H	acyl	NH ₂	OH	F
H	acyl	NH ₂	ОН	Cl
H	acyl	NH ₂	ОН	Br
H	acyl	NH ₂	OH	I
Н	amino acid	NH ₂	ОН	H
H	amino acid	NH ₂	ОН	NH ₂
H	amino acid	NH ₂	OH	NH-cyclopropyl
H	amino acid	NH ₂	OH	NH-methyl
H	amino acid	NH ₂	OH	NH-ethyl
H	amino acid	NH ₂	ОН	NH-acetyl
H	amino acid	NH ₂	OH	OH
H	amino acid	NH ₂	OH	OMe
Н	amino acid	NH ₂	OH	OEt
H	amino acid	NH ₂	ОН	O-cyclopropyl
H	amino acid	NH ₂	OH	O-acetyl
Η	amino acid	NH ₂	OH	SH
H	amino acid	NH ₂	ОН	SMe
Н	amino acid	NH ₂	OH	SEt
H	amino acid	NH ₂	OH	S-cyclopropyl
H	amino acid	NH ₂	OH	F
H	amino acid	NH ₂	OH	Cl
Н	amino acid	NH ₂	OH	Br
H	amino acid	NH ₂	OH	Ì
amino acid	amino acid	NH ₂	OH	H
amino acid	amino acid	NH ₂	OH	NH ₂
amino acid	amino acid	NH ₂	OH	NH-cyclopropyl
amino acid	amino acid	NH ₂	OH	NH-methyl
amino acid	amino acid	NH ₂	OH	NH-ethyl
amino acid	amino acid	NH ₂	OH	NH-acetyl
amino acid	amino acid	NH ₂	OH	OH
amino acid	amino acid	NH ₂	OH	OMe
amino acid	amino acid	NH ₂	OH	OEt
amino acid	amino acid	NH ₂	OH	O-cyclopropyl
amino acid	amino acid	NH ₂	OH	O-acetyl
amino acid	amino acid	NH ₂	OH	SH
amino acid	amino acid	NH ₂	OH	SMe
amino acid	amino acid	NH ₂	OH	SEt
amino acid	amino acid	NH ₂	OH	S-cyclopropyl
amino acid	amino acid	NH ₂	OH	F
amino acid	amino acid	NH ₂	OH	Cl
amino acid	amino acid	NH ₂	OH	Br
amino acid	amino acid	NH ₂	OH	I
amino acid	H	NH ₂	OH	H
amino acid	H	NH ₂	OH	NH ₂
amino acid	H	NH ₂	OH	NH-cyclopropyl

\mathbb{R}^2	R ³	$\mathbf{X}^{\mathbf{I}}$	X ²	Y
amino acid	H	NH ₂	OH	NH-methyl
amino acid	H	NH ₂	ОН	NH-ethyl
amino acid	Н	NH ₂	OH	NH-acetyl
amino acid	H	NH ₂	OH	OH
amino acid	Н	NH ₂	OH	OMe
amino acid	H	NH ₂	OH	OEt
amino acid	H	NH ₂	ОН	O-cyclopropyl
amino acid	Н	NH ₂	ОН	O-acetyl
amino acid	Н	NH ₂	OH	SH
amino acid	Н	NH ₂	ОН	SMe
amino acid	H	NH ₂	OH	SEt
amino acid	H	NH ₂	ОН	S-cyclopropyl
amino acid	Н	NH ₂	OH	F
amino acid	H	NH ₂	OH	Cl
amino acid	H	NH ₂	ОН	Br
amino acid	Н	NH ₂	OH	Ī
amino acid	acyl	NH ₂	ОН	H
amino acid	acyl	NH ₂	ОН	NH ₂
amino acid	acyl	NH ₂	ОН	NH-cyclopropyl
amino acid	acyl	NH ₂	OH	NH-methyl
amino acid	acyl	NH ₂	OH	NH-ethyl
amino acid	acyl	NH ₂	ОН	NH-acetyl
amino acid	acyl	NH ₂	OH	ОН
amino acid	acyl	NH ₂	OH	OMe
amino acid	acyl	NH ₂	OH	OEt
amino acid	acyl	NH ₂	OH	O-cyclopropyl
amino acid	acyl	NH ₂	OH	O-acetyl
amino acid	acyl	NH ₂	OH	SH
amino acid	acyl	NH ₂	OH	SMe
amino acid	acyl	NH ₂	OH	SEt
amino acid	acyl	NH ₂	OH	S-cyclopropyl
amino acid	acyl	NH ₂	OH	F
amino acid	acyl	NH ₂	ОН	Cl
amino acid	acyl	NH ₂	ОН	Br
amino acid	acyl	NH ₂	ОН	I
acyl	H	SH	ОН	Н
acyl	Н	SH	OH	NH ₂
acyl	H	SH	OH -	NH-cyclopropyl
acyl	H	SH	ОН	NH-methyl
acyl	H	SH	ОН	NH-ethyl
acyl	Н	SH	OH	NH-acetyl
acyl	Н	SH	ОН	ОН
acyl	Н	SH	OH	OMe
acyl	Н	SH	OH	OEt
acyl	Н	SH	OH	O-cyclopropyl
acyl	Н	SH	OH	O-acetyl
acyl	H	SH	OH	SH

\mathbb{R}^2	R^3	\mathbf{X}^{1}	X ²	Y
acyl	H	SH	OH	SMe
acyl	H	SH	OH	SEt
acyl	H	SH	OH	S-cyclopropyl
acyl	H	SH	OH	F
acyl	Н	SH	OH	Cl
acyl	H	SH	OH	Br
acyl	H	SH	OH	I
acyl	acyl	SH	OH	Н
acyl	acyl	SH	OH	NH ₂
acyl	acyl	SH	OH	NH-cyclopropyl
acyl	acyl	SH	OH	NH-methyl
acyl	acyl	SH	OH	NH-ethyl
acyl	acyl	SH	OH	NH-acetyl
acyl	acyl	SH	OH	OH
acyl	acyl	SH	OH	OMe
acyl	acyl	SH	OH	OEt
acyl	acyl	SH	OH	O-cyclopropyl
acyl	acyl	SH	OH	O-acetyl
acyl	acyl	SH	OH	SH
acyl	acyl	SH	OH	SMe
acyl	acyl	SH	OH	SEt
acyl	acyl	SH	ОН	S-cyclopropyl
acyl	acyl	SH	OH	F
acyl	acyl	SH	OH	Cl
acyl	acyl	SH	OH	Br
acyl	acyl	SH	OH	I
acyl	amino acid	SH	OH	Н
acyl	amino acid	SH	OH	NH ₂
acyl	amino acid	SH	OH	NH-cyclopropyl
acyl	amino acid	SH	OH	NH-methyl
acyl	amino acid	SH	OH	NH-ethyl
acyl	amino acid	SH	OH	NH-acetyl
acyl	amino acid	SH	OH	OH
acyl	amino acid	SH	OH	OMe
acyl	amino acid	SH	OH	OEt
acyl	amino acid	SH	OH	O-cyclopropyl
acyl	amino acid	SH	OH	O-acetyl
acyl	amino acid	SH	OH	SH
acyl	amino acid	SH	OH	SMe
acyl	amino acid	SH	OH	SEt
acyl	amino acid	SH	OH	S-cyclopropyl
acyl	amino acid	SH	OH	F
acyl	amino acid	SH	OH	Cl
acyl	amino acid	SH	ОН	Br
acyl	amino acid	SH	OH	I
H	acyl	SH	OH	Н
H	acyl	SH	OH	NH ₂

R ²	R ³	\mathbf{X}^{1}	X ²	Y
Н	acyl	SH	OH	NH-cyclopropyl
Н	acyl	SH	OH	NH-methyl
Н	acyl	SH	OH	NH-ethyl
Н	acyl	SH	OH	NH-acetyl
H	acyl	SH	OH	OH
H	acyl	SH	OH	OMe
H	acyl .	SH	OH	OEt
H	acyl	SH	OH	O-cyclopropyl
H	acyl	SH	OH	O-acetyl
H	acyl	SH	OH	SH
H	acyl	SH	OH	SMe
H	acyl	SH	OH	SEt
H	acyl	SH	OH	S-cyclopropyl
H	acyl	SH	OH	F S-cyclopropyi
H	acyl	SH	OH	Cl
H	acyl	SH	OH	Br
H	acyl	SH	OH	I
H	amino acid	SH	OH	H
H	amino acid	SH	OH	NH ₂
H	amino acid	SH	ОН	
H	amino acid	SH	OH	NH-cyclopropyl NH-methyl
H	amino acid	SH	OH	
H	amino acid	SH	OH	NH-ethyl
H	amino acid	SH	OH	NH-acetyl OH
H	amino acid	SH	OH	OMe
H	amino acid	SH	OH	
H	amino acid	SH	OH	OEt
H	amino acid	SH	OH	O-cyclopropyl
H		SH	OH	O-acetyl
H	amino acid			SH
H	amino acid	SH	OH	SMe
	amino acid	SH	OH	SEt
H	amino acid	SH	OH	S-cyclopropyl
H	amino acid	SH	OH	F
H	amino acid	SH	OH	Cl
H	amino acid	SH	OH	Br
H	amino acid	SH	OH	I
amino acid	amino acid	SH	OH	Н
amino acid	amino acid	SH	OH	NH ₂
amino acid	amino acid	SH	OH	NH-cyclopropyl
amino acid	amino acid	SH	OH	NH-methyl
amino acid	amino acid	SH	OH	NH-ethyl
amino acid	amino acid	SH	OH	NH-acetyl
amino acid	amino acid	SH	OH	OH
amino acid	amino acid	SH	OH	OMe
amino acid	amino acid	SH	OH	OEt
amino acid	amino acid	SH	OH	O-cyclopropyl
amino acid	amino acid	SH	OH	O-acetyl

\mathbb{R}^2	R ³	X	X ²	Y
amino acid	amino acid	SH	OH	SH
amino acid	amino acid	SH	ОН	SMe
amino acid	amino acid	SH	ОН	SEt
amino acid	amino acid	SH	OH	S-cyclopropyl
amino acid	amino acid	SH	ОН	F
amino acid	amino acid	SH	OH	Cl
amino acid	amino acid	SH	OH	Br
amino acid	amino acid	SH	OH	I
amino acid	Н	SH	OH	H
amino acid	H	SH	OH	NH ₂
amino acid	H	SH	OH	NH-cyclopropyl
amino acid	H	SH	OH	NH-methyl
amino acid	H	SH	OH	NH-ethyl
amino acid	H	SH	OH	NH-acetyl
amino acid	H	SH	OH	OH
amino acid	H	SH	OH	OMe
amino acid	H	SH	OH	OEt
amino acid	H	SH	OH	O-cyclopropyl
amino acid	H	SH	OH	O-acetyl
amino acid	H	SH	OH	SH
amino acid	H	SH	OH	SMe
amino acid	H	SH	OH	SEt
amino acid	H	SH	OH	S-cyclopropyl
amino acid	H	SH	OH	F
amino acid	H	SH	OH	Cl
amino acid	H	SH	OH	Br
amino acid	H	SH	OH	I
amino acid	acyl	SH	OH	H
amino acid	acyl	SH	OH	NH ₂
amino acid	acyl	SH	OH	NH-cyclopropyl
amino acid	acyl	SH	OH	NH-methyl
amino acid	acyl	SH	OH	NH-ethyl
amino acid	acyl	SH	OH	NH-acetyl
amino acid	acyl	SH	OH	OH
amino acid	acyl	SH	OH	OMe
amino acid	acyl	SH	OH	OEt
amino acid	acyl	SH	OH	O-cyclopropyl
amino acid	acyl	SH	OH	O-acetyl
amino acid	acyl	SH	OH	SH SH
amino acid	acyl	SH	OH	SMe
amino acid	acyl	SH	OH	SEt
amino acid	acyl	SH	OH	
amino acid		SH	OH	S-cyclopropyl F
amino acid	acyl	SH		
amino acid	acyl		OH	Cl
	acyl	SH	OH	Br
amino acid	acyl	SH	OH	I
acyl	<u> H</u>	OH	OH	H

R ²	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
acyl	H	ОН	OH	NH ₂
acyl	H	OH	OH	NH-cyclopropyl
acyl	Н	OH	OH	NH-methyl
acyl	Н	OH	OH	NH-ethyl
acyl	Н	OH	OH	NH-acetyl
acyl	Н	OH	ОН	ОН
acyl	H	OH	OH	OMe
acyl	H	OH	OH	OEt
acyl	H	OH	OH	O-cyclopropyl
acyl	Н	OH	ОН	O-acetyl
acyl	Н	OH	OH	SH
acyl	Н	OH	ОН	SMe
acyl	Н	ОН	ОН	SEt
acyl	Н	OH	OH	S-cyclopropyl
acyl	Н	OH	OH	F
acyl	H	OH	OH	Cl
acyl	Н	OH	OH	Br
acyl	H	OH	ОН	Ī
acyl	acyl	OH	OH	H
acyl	acyl	OH	OH	NH ₂
acyl	acyl	OH	OH	NH-cyclopropyl
acyl	acyl	OH	OH	NH-methyl
acyl	acyl	OH	OH	NH-ethyl
acyl	acyl	OH	OH	NH-acetyl
acyl	acyl	OH	OH	OH
acyl	acyl	OH	ОН	OMe
acyl	acyl	OH	OH	OEt
acyl	acyl	OH	OH	O-cyclopropyl
acyl	acyl	OH	OH	O-acetyl
acyl	acyl	ОН	ОН	SH
acyl	acyl	OH	OH	SMe
acyl	acyl	OH	OH	SEt
acyl	acyl	OH	OH	S-cyclopropyl
acyl	acyl	OH	OH	F
acyl	acyl	OH	OH	Cl
acyl	acyl	OH	OH	Br
acyl	acyl	ОН	OH	I
acyl	amino acid	OH	ОН	H
acyl	amino acid	OH	ОН	NH ₂
acyl	amino acid	OH	OH	NH-cyclopropyl
acyl	amino acid	ОН	OH	NH-methyl
acyl	amino acid	OH	OH	NH-ethyl
acyl	amino acid	OH	OH	NH-acetyl
acyl	amino acid	OH	OH	OH
acyl	amino acid	OH	OH	OMe
acyl	amino acid	OH	OH	OEt
acyl	amino acid	OH	OH	O-cyclopropyl

R ²	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
acyl	amino acid	OH	OH	O-acetyl
acyl	amino acid	OH	OH	SH
acyl	amino acid	OH	OH	SMe
acyl	amino acid	OH	OH	SEt
acyl	amino acid	ОН	ОН	S-cyclopropyl
acyl	amino acid	OH	ОН	F
acyl	amino acid	ОН	OH	Cl
acyl	amino acid	OH	ОН	Br
acyl	amino acid	ОН	OH	I
H	acyl	ОН	OH	H
H	acyl	ОН	OH	NH ₂
H	acyl	ОН	OH	NH-cyclopropyl
Н	acyl	ОН	ОН	NH-methyl
Н	acyl	ОН	OH	NH-ethyl
H	acyl	OH	OH	NH-acetyl
Н	acyl	OH	OH	ОН
H	acyl	ОН	OH	OMe
Н	acyl	OH	OH	OEt
Ĥ	acyl	OH	OH	O-cyclopropyl
H	acyl	OH	OH	O-acetyl
H	acyl	ОН	OH	SH
H	acyl	OH	OH	SMe
Н	acyl	OH	OH	SEt
H	acyl	OH	OH	S-cyclopropyl
H	acyl	OH	OH	F
H	acyl	OH	ОН	Cl
Н	acyl	OH	OH	Br
H	acyl	ОН	ОН	I
H	amino acid	OH	ОН	Н
H	amino acid	OH	OH	NH ₂
Н	amino acid	OH	OH	NH-cyclopropyl
H	amino acid	OH	OH	NH-methyl
H	amino acid	OH	OH	NH-ethyl
H	amino acid	OH	OH	NH-acetyl
H	amino acid	OH	OH	OH
H	amino acid	OH	OH	OMe
H	amino acid	OH	OH	OEt
H	amino acid	OH	ОН	O-cyclopropyl
H	amino acid	OH	OH	O-acetyl
H	amino acid	OH	OH	SH
H	amino acid	OH	OH	SMe
H	amino acid	OH	OH	SEt
H	amino acid	OH	OH	S-cyclopropyl
H	amino acid	OH	OH	F
H	amino acid	OH	OH	Cl
H	amino acid	OH	OH	Br
Н	amino acid	OH	OH	I

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
amino acid	amino acid	OH	OH	H
amino acid	amino acid	OH	ОН	NH ₂
amino acid	amino acid	OH	OH	NH-cyclopropyl
amino acid	amino acid	OH	OH	NH-methyl
amino acid	amino acid	OH	OH	NH-ethyl
amino acid	amino acid	OH	OH	NH-acetyl
amino acid	amino acid	OH	OH	OH
amino acid	amino acid	OH	OH	OMe
amino acid	amino acid	OH	OH	OEt
amino acid	amino acid	OH	OH	
amino acid	amino acid	OH	OH	O-cyclopropyl
amino acid	amino acid	OH	OH	O-acetyl SH
amino acid	amino acid	OH	OH	SMe
amino acid	amino acid	OH		
amino acid	amino acid	OH	OH	SEt S avalantant
amino acid	amino acid	OH	OH OH	S-cyclopropyl F
amino acid				
amino acid	amino acid	OH OH	OH	C1
amino acid	amino acid		OH	Br
amino acid		OH	OH	I
amino acid	H	OH	OH	H
	H	OH	OH	NH ₂
amino acid		OH	OH	NH-cyclopropyl
amino acid	H	OH	OH	NH-methyl
amino acid	H	OH	OH	NH-ethyl
amino acid	H	OH	OH	NH-acetyl
amino acid	H	OH	OH	OH
amino acid	H	OH	OH	OMe
amino acid	H	OH	OH	OEt
amino acid	H	OH	OH	O-cyclopropyl
amino acid	H	OH	OH	O-acetyl
amino acid	H	OH	OH	SH
amino acid	Н	OH	OH	SMe
amino acid	H	OH	OH	SEt
amino acid	H	OH	OH	S-cyclopropyl
amino acid	H	OH	OH	<u> </u>
amino acid	H	OH	OH	Cl
amino acid	H	OH	OH	Br
amino acid	H	OH	OH	1
amino acid	acyl	OH	OH	Н
amino acid	acyl	OH	OH	NH ₂
amino acid	acyl	OH	OH	NH-cyclopropyl
amino acid	acyl	OH	OH	NH-methyl
amino acid	acyl	OH	OH	NH-ethyl
amino acid	acyl	OH	ОН	NH-acetyl
amino acid	acyl	ОН	ОН	ОН
amino acid	acyl	OH	OH	OMe
amino acid	acyl	OH	OH	OEt
	1 2011	1011	1011	1 Opi

R ²	R ³	X ¹	X ²	Y
amino acid	acyl	OH	OH	O-cyclopropyl
amino acid	acyl	OH	OH	O-acetyl
amino acid	acyl	OH	OH	SH
amino acid	acyl	OH	ОН	SMe
amino acid	acyl	OH	OH	SEt
amino acid	acyl	OH	OH	S-cyclopropyl
amino acid	acyl	OH	ОН	F
amino acid	acyl	OH	ОН	Cl
amino acid	acyl	OH	OH	Br
amino acid	acyl	OH	ОН	I
acyl	Н	CH ₃	H	H
acyl	Н	CH ₃	H	NH ₂
acyl	Н	CH ₃	Н	NH-cyclopropyl
acyl	H	CH ₃	Н	NH-methyl
acyl	Н	CH ₃	H	NH-ethyl
acyl	Н	CH ₃	H	NH-acetyl
acyl	H	CH ₃	Н	ОН
acyl	H	CH ₃	H	OMe
acyl	Н	CH ₃	H	OEt
acyl	Н	CH ₃	H	O-cyclopropyl
acyl	Н	CH ₃	Н	O-acetyl
acyl	Н	CH ₃	H	SH
acyl	H	CH ₃	Н	SMe
acyl	Н	CH ₃	H	SEt
acyl	H	CH ₃	H	S-cyclopropyl
acyl	H	CH ₃	Н	F
acyl	H	CH ₃	H	Cl
acyl	Н	CH ₃	H	Br
acyl	Н	CH ₃	H	I
acyl	acyl	CH ₃	Н	H
acyl	acyl	CH ₃	Н	NH ₂
acyl	acyl	CH ₃	Н	NH-cyclopropyl
acyl	acyl	CH ₃	H	NH-methyl
acyl	acyl	CH ₃	H	NH-ethyl
acyl	acyl	CH ₃	Н	NH-acetyl
acyl	acyl	CH ₃	H	ОН
acyl	acyl	CH ₃	H	OMe
acyl	acyl	CH ₃	Н	OEt
acyl	acyl	CH ₃	H	O-cyclopropyl
acyl	acyl	CH ₃	Н	O-acetyl
acyl	acyl	CH ₃	H	SH
acyl	acyl	CH ₃	H	SMe
acyl	acyl	CH ₃	H	SEt
acyl	acyl	CH ₃	H	S-cyclopropyl
acyl	acyl	CH ₃	H	F S-cyclopropyr
acyl	acyl	CH ₃	H	Cl
acyl	acyl	CH ₃	H	Br
1071	1 40 y i	СП3	111	DI

\mathbb{R}^2	R ³	X¹	X ²	Y
acyl	acyl	CH ₃	H	I
acyl	amino acid	CH ₃	Н	H
acyl	amino acid	CH ₃	H	NH ₂
acyl	amino acid	CH ₃	H	NH-cyclopropyl
acyl	amino acid	CH ₃	H	NH-methyl
acyl	amino acid	CH ₃	H	NH-ethyl
acyi	amino acid	CH ₃	H	NH-acetyl
acyl	amino acid	CH ₃	Н	OH
acyl	amino acid	CH ₃	Н	OMe
acyl	amino acid	CH ₃	Н	OEt
acyl	amino acid	CH ₃	Н	O-cyclopropyl
acyl	amino acid	CH ₃	Н	O-acetyl
acyl	amino acid	CH ₃	Н	SH
acyl	amino acid	CH ₃	H	SMe
acyl	amino acid	CH ₃	Н	SEt
acyl	amino acid	CH ₃	H	S-cyclopropyl
acyl	amino acid	CH ₃	H	F
acyl	amino acid	CH ₃	H	Cl
acyl	amino acid	CH ₃	H	Br
acyl	amino acid	CH ₃	H	I
H	acyl	CH ₃	H	H
Н	acyl	CH ₃	H	NH ₂
H	acyl	CH ₃	Н	NH-cyclopropyl
H	acyl	CH ₃	H	NH-methyl
H	acyl	CH ₃	H	NH-ethyl
H	acyl	CH ₃	H	NH-acetyl
H	acyl	CH ₃	Н	OH
H	acyl	CH ₃	H	OMe
H	acyl	CH ₃	H	OEt
H	acyl	CH ₃	H	O-cyclopropyl
H	acyl	CH ₃	H	O-acetyl
H	acyl	CH ₃	H	SH
H	acyl	CH ₃	H	SMe
H	acyl	CH ₃	H	SEt
H	acyl	CH ₃	H	S-cyclopropyl
H	acyl	CH ₃	H	F
H	acyl	CH ₃	H	Cl
H	acyl	CH ₃	H	Br
H	acyl	CH ₃	H	I
H	amino acid	CH ₃	H	H
H	amino acid	CH ₃	H	NH ₂
H	amino acid	CH ₃	H	NH-cyclopropyl
H	amino acid	CH ₃	H	NH-methyl
H	amino acid	CH ₃	H	NH-ethyl
H	amino acid	CH ₃	H	NH-acetyl
H	amino acid	CH ₃	Н	OH
Н	amino acid	CH ₃	H	OMe

R ²	R ³	X ¹	X ²	Y
H	amino acid	CH ₃	H	OEt
H	amino acid	CH ₃	H	O-cyclopropyl
Н	amino acid	CH ₃	H	O-acetyl
H	amino acid	CH ₃	H	SH
Н	amino acid	CH ₃	H	SMe
H	amino acid	CH ₃	H	SEt
Н	amino acid	CH ₃	H	S-cyclopropyl
Н	amino acid	CH ₃	Н	F
Н	amino acid	CH ₃	H	Cl
Н	amino acid	CH ₃	H	Br
H	amino acid	CH ₃	H	I
amino acid	amino acid	CH ₃	H	H
amino acid	amino acid	CH ₃	H	NH ₂
amino acid	amino acid	CH ₃	H	NH-cyclopropyl
amino acid	amino acid	CH ₃	H	NH-methyl
amino acid	amino acid	CH ₃	H	NH-ethyl
amino acid	amino acid	CH ₃	H	NH-acetyl
amino acid	amino acid	CH ₃	H	OH
amino acid	amino acid	CH ₃	H	OMe
amino acid	amino acid	CH ₃	Н	OEt
amino acid	amino acid	CH ₃	H	O-cyclopropyl
amino acid	amino acid	CH ₃	Н	O-acetyl
amino acid	amino acid	CH ₃	Н	SH
amino acid	amino acid	CH ₃	H	SMe
amino acid	amino acid	CH ₃	Н	SEt
amino acid	amino acid	CH ₃	H	S-cyclopropyl
amino acid	amino acid	CH ₃	Н	F
amino acid	amino acid	CH ₃	H	Cl
amino acid	amino acid	CH ₃	H	Br
amino acid	amino acid	CH ₃	Н	I
amino acid	Н	CH ₃	H	Н
amino acid	Н	CH ₃	Н	NH ₂
amino acid	Н	CH ₃	Н	NH-cyclopropyl
amino acid	Н	CH ₃	Н	NH-methyl
amino acid	Н	CH ₃	Н	NH-ethyl
amino acid	Н	CH ₃	Н	NH-acetyl
amino acid	Н	CH ₃	Н	OH
amino acid	Н	CH ₃	H	OMe
amino acid	Н	CH ₃	Н	OEt
amino acid	H	CH ₃	H	O-cyclopropyl
amino acid	H	CH ₃	H	O-acetyl
amino acid	H	CH ₃	H	SH
amino acid	H	CH ₃	H	SMe
amino acid	H	CH ₃	H	SEt
amino acid	H	CH ₃	H	S-cyclopropyl
amino acid	H	CH ₃	H	F
amino acid	H	CH ₃	$\frac{11}{H}$	Cl
annio aciu	111	L CH3	<u> </u>	C1

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
amino acid	Н	CH ₃	H	Br
amino acid	Н	CH ₃	H	Ī
amino acid	acyl	CH ₃	Н	H
amino acid	acyl	CH ₃	Н	NH ₂
amino acid	acyl	CH ₃	H	NH-cyclopropyi
amino acid	acyl	CH ₃	Н	NH-methyl
amino acid	acyl	CH ₃	H	NH-ethyl
amino acid	acyl	CH ₃	H	NH-acetyl
amino acid	acyl	CH ₃	Н	ОН
amino acid	acyl	CH ₃	H	OMe
amino acid	acyl	CH ₃	H	OEt
amino acid	acyl	CH ₃	Н	O-cyclopropyl
amino acid	acyl	CH ₃	H	O-acetyl
amino acid	acyl	CH ₃	H	SH
amino acid	acyl	CH ₃	H	SMe
amino acid	acyl	CH ₃	Н	SEt
amino acid	acyl	CH ₃	Н	S-cyclopropyl
amino acid	acyl	CH ₃	H	F
amino acid	acyl	CH ₃	H	Cl
amino acid	acyl	CH ₃	H	Br
amino acid	acyl	CH ₃	H	I
acyl	H	CF ₃	H	H
acyl	H	CF ₃	H	NH ₂
acyl	H	CF ₃	H	NH-cyclopropyl
acyl	H	CF ₃	H	NH-methyl
acyl	H	CF ₃	H	NH-ethyl
acyl	H	CF ₃	H	NH-acetyl
acyl	H	CF ₃	H	ОН
acyl	H	CF ₃	H	OMe
acyl	Н	CF ₃	H	OEt
acyl	Н	CF ₃	Н	O-cyclopropyl
acyl	Н	CF ₃	H	O-acetyl
acyl	H	CF ₃	H_	SH
acyl	H	CF ₃	H	SMe
acyl	H	CF ₃	H	SEt
acyl	H	CF ₃	H	S-cyclopropyl
acyl	Н	CF ₃	H	F
acyl	H	CF ₃	H	Cl
acyl	H	CF ₃	H	Br
acyl	H	CF ₃	H	I
acyl	acyl	CF ₃	H	H
acyl	acyl	CF ₃	H	NH ₂
acyl	acyl	CF ₃	H	NH-cyclopropyl
acyl	acyl	CF ₃	H	NH-methyl
acyl	acyl	CF ₃	H	NH-ethyl
acyl	acyl	CF ₃	H	NH-acetyl
acyl	acyl	CF ₃	H	ОН

R ²	R ³	X ¹	X ²	Y
acyl	acyl	CF ₃	Н	OMe
acyl	acyl	CF ₃	H	OEt
acyl	acyl	CF ₃	H	O-cyclopropyl
acyl	acyl	CF ₃	H	O-acetyl
acyl	acyl	CF ₃	H	SH
acyl	acyl	CF ₃	Н	SMe
acyl	acyl	CF ₃	Н	SEt
acyl	acyl	CF ₃	H	S-cyclopropyl
acyl	acyl	CF ₃	Н	F
acyl	acyl	CF ₃	H	Cl
acyl	acyl	CF ₃	H	Br
acyl	acyl	CF ₃	Н	I
acyl	amino acid	CF ₃	Н	H
acyl	amino acid	CF ₃	Н	NH ₂
acyl	amino acid	CF ₃	Н	NH-cyclopropyl
acyl	amino acid	CF ₃	H	NH-methyl
acyl	amino acid	CF ₃	Н	NH-ethyl
acyl	amino acid	CF ₃	Н	NH-acetyl
acyl	amino acid	CF ₃	Н	OH
acyl	amino acid	CF ₃	H	OMe
acyl	amino acid	CF ₃	Н	OEt
acyl	amino acid	CF ₃	Н	O-cyclopropyl
acyl	amino acid	CF ₃	Н	O-acetyl
acyl	amino acid	CF ₃	H	SH
acyl	amino acid	CF ₃	H	SMe
acyl	amino acid	CF ₃	Н	SEt
acyl	amino acid	CF ₃	H	S-cyclopropyl
acyl	amino acid	CF ₃	Н	F
acyl	amino acid	CF ₃	Н	Cl
acyl	amino acid	CF ₃	Н	Br
acyl	amino acid	CF ₃	Н	I
H	acyl	CF ₃	H	Н
H	acyl	CF ₃	H	NH ₂
H	acyl	CF ₃	H	NH-cyclopropyl
H	acyl	CF ₃	H	NH-methyl
Н	acyl	CF ₃	Н	NH-ethyl
H	acyl	CF ₃	H	NH-acetyl
Н	acyl	CF ₃	H	OH
Н	acyl	CF ₃	H	OMe
H	acyl	CF ₃	H	OEt
Н	acyl	CF ₃	H	O-cyclopropyl
Н	acyl	CF ₃	H	O-acetyl
Н	acyl	CF ₃	H	SH
H	acyl	CF ₃	H	SMe
H	acyl	CF ₃	H	SEt
Н	acyl	CF ₃	H	S-cyclopropyl
Н	acyl	CF ₃	H	F

R ²	\mathbb{R}^3	X ¹	X ²	Y
Н	acyl	CF ₃	H	Cl
H	acyl	CF ₃	Н	Br
Н	acyl	CF ₃	H	Ī
Н	amino acid	CF ₃	H	H
Н	amino acid	CF ₃	Н	NH ₂
Н	amino acid	CF ₃	H	NH-cyclopropyl
Н	amino acid	CF ₃	H	NH-methyl
Н	amino acid	CF ₃	H	NH-ethyl
Н	amino acid	CF ₃	H	NH-acetyl
H	amino acid	CF ₃	H	OH
H	amino acid	CF ₃	H	OMe
Н	amino acid	CF ₃	H	OEt
H	amino acid	CF ₃	H	O-cyclopropyl
H	amino acid	CF ₃	H	O-acetyl
H	amino acid	CF ₃	H	SH
H	amino acid	CF ₃	H	SMe
H	amino acid	CF ₃	H	SEt
H	amino acid	CF ₃	H	S-cyclopropyl
Н	amino acid	CF ₃	Н	F
Н	amino acid	CF ₃	H	Cl
H	amino acid	CF ₃	Н	Br
Н	amino acid	CF ₃	H	I
amino acid	amino acid	CF ₃	H	Н
amino acid	amino acid	CF ₃	Н	NH ₂
amino acid	amino acid	CF ₃	Н	NH-cyclopropyl
amino acid	amino acid	CF ₃	Н	NH-methyl
amino acid	amino acid	CF ₃	H	NH-ethyl
amino acid	amino acid	CF ₃	H	NH-acetyl
amino acid	amino acid	CF ₃	Н	ОН
amino acid	amino acid	CF ₃	Н	OMe
amino acid	amino acid	CF ₃	H	OEt
amino acid	amino acid	CF ₃	H	O-cyclopropyl
amino acid	amino acid	CF ₃	H	O-acetyl
amino acid	amino acid	CF ₃	H	SH
amino acid	amino acid	CF ₃	H	SMe
amino acid	amino acid	CF ₃	H	SEt
amino acid	amino acid	CF ₃	Н	S-cyclopropyl
amino acid	amino acid	CF ₃	H	F
amino acid	amino acid	CF ₃	H	Cl
amino acid	amino acid	CF ₃	H	Br
amino acid	amino acid	CF ₃	Н	I
amino acid	H	CF ₃	Н	Н
amino acid	H	CF ₃	Н	NH ₂
amino acid	Н	CF ₃	H	NH-cyclopropyl
amino acid	H	CF ₃	H	NH-methyl
amino acid	Н	CF ₃	H	NH-ethyl
amino acid	H	CF ₃	Н	NH-acetyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	H	CF ₃	H	OH
amino acid	H	CF ₃	H	OMe
amino acid	H	CF ₃	H	OEt
amino acid	H	CF ₃	H	O-cyclopropyl
amino acid	H	CF ₃	H	O-acetyl
amino acid	H	CF ₃	H	SH
amino acid	H	CF ₃	H	SMe
amino acid	H	CF ₃	H	SEt
amino acid	H	CF ₃	H	S-cyclopropyl
amino acid	H	CF ₃	H	F
amino acid	H	CF ₃	H	Cl
amino acid	H	CF ₃	H	Br
amino acid	H	CF ₃	H	I
amino acid	acyl	CF ₃	H	H
amino acid	acyl	CF ₃	H	NH ₂
amino acid	acyl	CF ₃	H	NH-cyclopropyl
amino acid	acyl	CF ₃	H	NH-methyl
amino acid	acyl	CF ₃	H	NH-ethyl
amino acid	acyl	CF ₃	H	NH-acetyl
amino acid	acyl	CF ₃	H	OH
amino acid	acyl	CF ₃	H	OMe
amino acid	acyl	CF ₃	H	OEt
amino acid	acyl	CF ₃	$\frac{1}{H}$	O-cyclopropyl
amino acid	acyl	CF ₃	+ 11	O-acetyl
amino acid	acyl	CF ₃	H	SH
amino acid	acyl	CF ₃	H	SMe
amino acid	acyl	$\frac{\text{CF}_3}{\text{CF}_3}$	H	SEt
amino acid	acyl	CF ₃	$\frac{11}{H}$	S-cyclopropyl
amino acid	acyl	CF ₃	H	F
amino acid	acyl	CF ₃	H	CI
amino acid	acyl	CF ₃	$\frac{H}{H}$	Br
amino acid	acyl	CF ₃	H	I
acyl	H	Br	H	H
acyl	H	Br	H	NH ₂
acyl	Н	Br	H	NH-cyclopropyl
acyl	Н	Br	$\frac{11}{H}$	NH-methyl
acyl	H	Br	H	NH-ethyl
acyl	H	Br	H	NH-acetyl
acyl	H	Br	H	OH
acyl	H	Br	H	OMe
acyl	H	Br	$\frac{11}{H}$	OEt
acyl	$\frac{H}{H}$	Br	H	O-cyclopropyl
acyl	$\frac{H}{H}$	Br	H	O-acetyl
acyl	H	Br	H	SH SH
acyl	$+\frac{n}{H}$	Br	H	SMe
acyl	$\frac{\Pi}{H}$	Br	H	SEt
	H			
acyl	<u> </u>	Br	H	S-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	X	X ²	Y
acyl	H	Br	Н	F
acyl	Н	Br	Н	Cl
acyl	Н	Br	Н	Br
acyl	H	Br	Н	I
acyl	acyl	Br	Н	H
acyl	acyl	Br	H	NH ₂
acyl	acyl	Br	H	NH-cyclopropyl
acyl	acyl	Br	H	NH-methyl
acyl	acyl	Br	H	NH-ethyl
acyl	acyl	Br	H	NH-acetyl
acyl	acyl	Br	Н	OH
acyl	acyl	Br	H	OMe
acyl	acyl	Br	H	OEt
acyl	acyl	Br	Н	O-cyclopropyl
acyl	acyl	Br	Н	O-acetyl
acyl	acyl	Br	H	SH
acyl	acyl	Br	Н	SMe
acyl	acyl	Br	H	SEt
acyl	acyl	Br	Н	S-cyclopropyl
acyl	acyl	Br	H	F
acyl	acyl	Br	H	Cl
acyl	acyl	Br	H	Br
acyl	acyl	Br	H	I
acyl	amino acid	Br	H	Н
acyl	amino acid	Br	H	NH ₂
acyl	amino acid	Br	H	NH-cyclopropyl
acyl	amino acid	Br	H	NH-methyl
acyl	amino acid	Br	H	NH-ethyl
acyl	amino acid	Br	H	NH-acetyl
acyl	amino acid	Br	H	OH
acyl	amino acid	Br	H	OMe
acyl	amino acid	Br	H	OEt
acyl	amino acid	Br	H	O-cyclopropyl
acyl	amino acid	Br	H	O-acetyl
acyl	amino acid	Br	H	SH
acyl	amino acid	Br	H	SMe
acyl	amino acid	Br	H	SEt
acyl	amino acid	Br	H	S-cyclopropyl
acyl	amino acid	Br	H	F
acyl	amino acid	Br	H	Cl
acyl	amino acid	Br	H	Br
acyl	amino acid	Br	Н	I
H	acyl	Br	H	Н
H	acyl	Br	H	NH ₂
H	acyl	Br	H	NH-cyclopropyl
H	acyl	Br	H	NH-methyl
H	acyl	Br	Н	NH-ethyl

H acyl Br H OH H acyl Br H OH H acyl Br H OMe H acyl Br H OEt H acyl Br H OEt H acyl Br H O-cyclopropyl H acyl Br H O-cyclopropyl H acyl Br H O-cyclopropyl H acyl Br H SH H BH SH H SH H Acyl Br H SH H SSE H SME H Acyl Br H SE H SE H Acyl Br H SE H SC-cyclopropyl H acyl Br H S-cyclopropyl H acyl Br H F H Br H Cl H acyl Br H Br H Cl H acyl Br H Br H Br H Acyl Br H Br H Br H Acyl Br H NH-cyclopropyl H acyl Br H NH-cyclopropyl H acyl Br H NH-cyclopropyl H acyl Br H OC H Amino acid Br H NH-ethyl H Amino acid Br H NH-ethyl H Amino acid Br H OH H Amino acid Br H OH H Amino acid Br H SH H Amino acid Br H NH-eyclopropyl H Amino acid Br H SH H Amino acid Br H NH-eyclopropyl H Amino acid Br H NH-eyclopropyl Amino acid Amino acid Br H OH-eyclopropyl Amino acid Amino acid Br H O-cyclopropyl Amin	\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
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H H Acyl Br H Oct H Acyl Br H Ocyclopropyl Br H Oc-ocyclopropyl Br H Oc-ocyclopropyl Br H SH S	Н		Br	Н	
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amino acid Br H SH	amino acid	amino acid			
	amino acid	amino acid			
	amino acid	amino acid	Br	Н	SMe
amino acid Br H SEt	amino acid				

\mathbb{R}^2	R ³	X ¹	X ²	Y
amino acid	amino acid	Br	H	S-cyclopropyl
amino acid	amino acid	Br	Н	F
amino acid	amino acid	Br	H	Cl
amino acid	amino acid	Br	Н	Br
amino acid	amino acid	Br	Н	I
amino acid	H	Br	Н	H
amino acid	H	Br	Н	NH ₂
amino acid	H	Br	Н	NH-cyclopropyl
amino acid	H	Br	H	NH-methyl
amino acid	Н	Br	H	NH-ethyl
amino acid	Н	Br	Н	NH-acetyl
amino acid	H	Br	H	ОН
amino acid	H	Br	H	OMe
amino acid	H	Br	Н	OEt
amino acid	Н	Br	Н	O-cyclopropyl
amino acid	H	Br	Н	O-acetyl
amino acid	Н	Br	H	SH
amino acid	H	Br	H	SMe
amino acid	Н	Br	H	SEt
amino acid	Н	Br	Н	S-cyclopropyl
amino acid	Н	Br	H	F
amino acid	H	Br	H	Cl
amino acid	Н	Br	Н	Br
amino acid	H	Br	Н	I
amino acid	acyl	Br	H	Н
amino acid	acyl	Br	Н	NH ₂
amino acid	acyl	Br	H	NH-cyclopropyl
amino acid	acyl	Br	H	NH-methyl
amino acid	acyl	Br	H	NH-ethyl
amino acid	acyl	Br	H	NH-acetyl
amino acid	acyl	Br	H	OH
amino acid	acyl	Br	Н	OMe
amino acid	acyl	Br	H	OEt
amino acid	acyl	Br	H	O-cyclopropyl
amino acid	acyl	Br	Н	O-acetyl
amino acid	acyl	Br	H	SH
amino acid	acyl	Br	H	SMe
amino acid	acyl	Br	H	SEt
amino acid	acyl	Br	H	S-cyclopropyl
amino acid	acyl	Br	Н	F
amino acid	acyl	Br	H	Cl
amino acid	acyl	Br	H	Br
amino acid	acyl	Br	Н	I
acyl	Н	Cl	H	Н
acyl	Н	Cl	H	NH ₂
acyl	Н	Cl	H	NH-cyclopropyl
acyl	Н	Cl	H	NH-methyl

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
acyl	H	Cl	Н	NH-ethyl
acyl	Н	Cl	Н	NH-acetyl
acyl	H	CI	H	ОН
acyl	Н	Cl	H	OMe
acyl	Н	Cl	H	OEt
acyl	H	Cl	H	O-cyclopropyl
acyl	Н	Cl	H	O-acetyl
acyl	Н	Cl	H	SH
acyl	H	Cl	H	SMe
acyl	H	C1	Н	SEt
acyl	H	Cl	Н	S-cyclopropyl
acyl	Н	Cl	H	F
acyl	Н	Cl	H	Cl
acyl	H	Cl	Н	Br
acyl	H	Cl	Н	I
acyl	acyl	Cl	Н	Н
acyl	acyl	Cl	Н	NH ₂
acyl	acyl	Cl	Н	NH-cyclopropyl
acyl	acyl	Cl	Н	NH-methyl
acyl	acyl	Cl	Н	NH-ethyl
acyl	acyl	Cl	H	NH-acetyl
acyl	acyl	C1	Н	ОН
acyl	acyl	Cl	H	OMe
acyl	acyl	Cl	H	OEt
acyl	acyl	Cl	H	O-cyclopropyl
acyl	acyl	Cl	H	O-acetyl
acyl	acyl	Cl	H	SH
acyl	acyl	Cl	H	SMe
acyl	acyl	Cl	H	SEt
acyl	acyl	Cl	H	S-cyclopropyl
acyl	acyl	Cl	H	F
acyl	acyl	Cl	H	Cl
acyl	acyl	Cl	H	Br
acyl	acyl	Cl	H	I
acyl	amino acid	Cl	H	H
acyl	amino acid	Cl	H	NH ₂
acyl	amino acid	Cl	H	NH-cyclopropyl
acyl	amino acid	Ci	H	NH-methyl
acyl	amino acid	Cl	H	NH-ethyl
acyl	amino acid	Cl	H	NH-acetyl
acyl	amino acid	Cl	H	OH
acyl	amino acid	Cl	H	OMe
acyl	amino acid	C1	H	OEt
acyl	amino acid	Cl	Н	O-cyclopropyl
acyl	amino acid	Cl	H	O-acetyl
acyl	amino acid	Cl	H	SH
acyl	amino acid	Cl	Н	SMe

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
acyl	amino acid	Cl	H	SEt
acyl	amino acid	Cl	H	S-cyclopropyl
acyl	amino acid	CI	H	F
acyl	amino acid	Cl	Н	Cl
acyl	amino acid	Cl	H	Br
acyl	amino acid	Cl	H	I
H	acyl	Cl	H	Н
Н	acyl	Cl	H	NH ₂
Н	acyl	Cl	H	NH-cyclopropyl
Н	acyl	Cl	Н	NH-methyl
H	acyl	Cl	H	NH-ethyl
H	acyl	Cl	H	NH-acetyl
Н	acyl	Cl	H	OH
Н	acyl	Cl	H	OMe
H	acyl	Cl	H	OEt
Н	acyl	CI	H	O-cyclopropyl
Н	acyl	Cl	H	O-acetyl
Н	acyl	Cl	H	SH
Н	acyl	CI	Н	SMe
Н	acyl	Cl	Н	SEt
Н	acyl	Cl	H	S-cyclopropyl
Н	acyl	CI	Н	F
Н	acyl	Cl	H	Cl
Н	acyl	C1	H	Br
H	acyl	Cl	Н	Ī
H	amino acid	Cl	H	Н
H	amino acid	Cl	H	NH ₂
Н	amino acid	Cl	Н	NH-cyclopropyl
Н	amino acid	Cl	Н	NH-methyl
Н	amino acid	C1	H	NH-ethyl
Н	amino acid	Cl	Н	NH-acetyl
Н	amino acid	Cl	Н	OH
Н	amino acid	Cl	Н	OMe
H	amino acid	Cl	Н	OEt
H	amino acid	Cl	Н	O-cyclopropyl
Н	amino acid	Cl	Н	O-acetyl
Н	amino acid	Cl	Н	SH
Н	amino acid	Cl	Н	SMe
Н	amino acid	Cl	Н	SEt
Н	amino acid	Cl	Н	S-cyclopropyl
Н	amino acid	Cl	H	F
Н	amino acid	Cl	Н	Cl
Н	amino acid	Cl	H	Br
Н	amino acid	Cl	H	Ī
amino acid	amino acid	Cl	H	H
amino acid	amino acid	Cl	H	NH ₂
amino acid	amino acid	Cl	H	NH-cyclopropyl
wante dold	ammo aciu			TATI-OYOIOPIOPYI

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amino acid acyl Cl H SH					

\mathbb{R}^2	R ³	X^1	X ²	Y
amino acid	acyl	Cl	H	SMe
amino acid	acyl	Cl	H	SEt
amino acid	acyl	Cl	H	S-cyclopropyl
amino acid	acyl	Cl	H	F
amino acid	acyl	Cl	Н	Cl
amino acid	acyl	Cl	H	Br
amino acid	acyl	Cl	Н	I
acyl	Н	F	H	Н
acyl	H	F	H	NH ₂
acyl	Н	F	H	NH-cyclopropyl
acyl	Н	F	H	NH-methyl
acyl	Н	F	H	NH-ethyl
acyl	Н	F	Н	NH-acetyl
acyl	Н	F	Н	OH
acyl	H	F	H	OMe
acyl	H	F	H	OEt
acyl	Н	F	H	O-cyclopropyl
acyl	Н	F	H	O-acetyl
acyl	H	F	H	SH
acyl	H	F	H	SMe
acyl	Н	F	H	SEt
acyl	H	F	H	S-cyclopropyl
acyl	H	F	H	F
acyl	H	F	H	Cl
acyl	H	F	H	Br
acyl	H	F	H	I
acyl	acyl	F	H	H
acyl	acyl	F	H	NH ₂
acyl	acyl	F	H	NH-cyclopropyl
acyl	acyl	F	H	NH-methyl
acyl	acyl	F	H	NH-ethyl
acyl	acyl	F	H	NH-acetyl
acyl	acyl	F	H	OH
acyl	acyl	F	H	OMe
acyl	acyl	F	H	OEt
acyl	acyl	F	H	O-cyclopropyl
acyl	acyl	F	H	O-acetyl
acyl	acyl	F	H	SH
acyl	acyl	$\frac{1}{F}$	H	SMe
acyl	acyl	F	H	SEt
acyl	acyl	F	H	S-cyclopropyl
acyl	acyl	$\frac{1}{F}$	H	F
acyl	acyl	F	H	CI
acyl	acyl	F	H	Br
acyl	acyl	F	H	I
acyl	amino acid	F	H	H
acyl	amino acid	F	$\frac{H}{H}$	NH ₂
acyi	annino acid	Г.	<u>u</u>	INFI2

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
acyl	amino acid	F	H	NH-cyclopropyl
acyl	amino acid	F	H	NH-methyl
acyl	amino acid	F	H	NH-ethyl
acyl	amino acid	F	Н	NH-acetyl
acyl	amino acid	F	H	OH
acyl	amino acid	F	H	OMe
acyl	amino acid	F	Н	OEt
acyl	amino acid	F	H	O-cyclopropyl
acyl	amino acid	F	H	O-acetyl
acyl	amino acid	F	H	SH
acyl	amino acid	F	H	SMe
acyl	amino acid	F	Н	SEt
acyl	amino acid	F	Н	S-cyclopropyl
acyl	amino acid	F	H	F
acyl	amino acid	F	H	Cl
acyl	amino acid	F	Н	Br
acyl	amino acid	F	Н	I
H	acyl	F	Н	Н
H	acyl	F	H	NH ₂
H	acyl	F	H	NH-cyclopropyl
H	acyl	F	H	NH-methyl
H	acyl	F	H	NH-ethyl
Н	acyl	F	H	NH-acetyl
H	acyl	F	H	OH
H	acyl	F	H	OMe
H	acyl	F	Н	OEt
H	acyl	F	H	O-cyclopropyl
H	acyl	F	H	O-acetyl
H	acyl	F	H	SH
H	acyl	F	H	SMe
H	acyl	F	H	SEt
H	acyl	F	H	S-cyclopropyl
H	acyl	F	H	F
H	acyl	F	H	Cl
H	acyl	F	H	Br
H	acyl	F	H	I
H	amino acid	F	H	H
H	amino acid	F	H	NH ₂
H	amino acid	F	H	NH-cyclopropyl
H	amino acid	F	H	NH-methyl
H	amino acid	F	H	NH-ethyl
H	amino acid	F	H	NH-acetyl
H	amino acid	F	H	OH
H	amino acid	F	H	OMe
Н	amino acid	F	H	OEt
H	amino acid	F	Н	O-cyclopropyl
H	amino acid	F	Н	O-acetyl

R ²	R ³	\mathbf{X}^{1}	X ²	Y
H	amino acid	F	H	SH
H	amino acid	F	H	SMe
H	amino acid	F	H	SEt
Н	amino acid	F	H	S-cyclopropyl
Н	amino acid	F	H	F
Н	amino acid	F	H	Cl
H	amino acid	F	Н	Br
H	amino acid	F	Н	I
amino acid	amino acid	F	H	Н
amino acid	amino acid	F	H	NH ₂
amino acid	amino acid	F	H	NH-cyclopropyl
amino acid	amino acid	F	H	NH-methyl
amino acid	amino acid	F	H	NH-ethyl
amino acid	amino acid	F	Н	NH-acetyl
amino acid	amino acid	F	Н	ОН
amino acid	amino acid	F	Н	OMe
amino acid	amino acid	F	H	OEt
amino acid	amino acid	F	Н	O-cyclopropyl
amino acid	amino acid	F	Н	O-acetyl
amino acid	amino acid	F	H	SH
amino acid	amino acid	F	H	SMe
amino acid	amino acid	F	Н	SEt
amino acid	amino acid	F	Н	S-cyclopropyl
amino acid	amino acid	F	Н	F
amino acid	amino acid	F	Н	Cl
amino acid	amino acid	F	Н	Br
amino acid	amino acid	F	Н	I
amino acid	H	F	H	H
amino acid	H	F	H	NH ₂
amino acid	H	F	H	NH-cyclopropyl
amino acid	H	F	H	NH-methyl
amino acid	H	F	H	NH-ethyl
amino acid	_H	F	H	NH-acetyl
amino acid	H	F	H	OH
amino acid	Н	F	H	OMe
amino acid	H	F	H	OEt
amino acid	H	F	H	O-cyclopropyl
amino acid	H	F	H	O-acetyl
amino acid	H	F	<u> </u>	SH_
amino acid	H	F	H	SMe
amino acid	Н	F	Н	SEt
amino acid	Н	F	H	S-cyclopropyl
amino acid	H	F	H	F
amino acid	Н	F	H	Cl
amino acid	H	F	Н	Br
amino acid	Н	F	Н	I
amino acid	acyl	F	Н	Н

R ²	R ³	X^1	X ²	Y
amino acid	acyl	F	H	NH ₂
amino acid	acyl	F	H	NH-cyclopropyl
amino acid	acyl	F	Н	NH-methyl
amino acid	acyl	F	Н	NH-ethyl
amino acid	acyl	F	H	NH-acetyl
amino acid	acyl	F	H	OH
amino acid	acyl	F	Н	OMe
amino acid	acyl	F	H	OEt
amino acid	acyl	F	H	O-cyclopropyl
amino acid	acyl	F	Н	O-acetyl
amino acid	acyl	F	H	SH
amino acid	acyl	F	Н	SMe
amino acid	acyl	F	H	SEt
amino acid	acyl	F	H	S-cyclopropyl
amino acid	acyl	F	H	F
amino acid	acyl	F	H	Cl
amino acid	acyl	F	H	Br
acyl	Н	NH ₂	H	H
acyl	H	NH ₂	H	NH ₂
acyl	H	NH ₂	H	NH-cyclopropyl
acyl	H	NH ₂	H	NH-methyl
acyl	H	NH ₂	Н	NH-ethyl
acyl	H	NH ₂	Н	NH-acetyl
acyl	H	NH ₂	H	ОН
acyl	H	NH ₂	H	OMe
acyl	H	NH ₂	H	OEt
acyl	H	NH ₂	H	O-cyclopropyl
acyl	H	NH ₂	H	O-acetyl
acyl	Н	NH ₂	H	SH
acyl	Н	NH ₂	H	SMe
acyl	H	NH ₂	H	SEt
acyl	Н	NH ₂	Н	S-cyclopropyl
acyl	Н	NH ₂	Н	F
acyl	H	NH ₂	H	Cl
acyl	H	NH ₂	H	Br
acyl	Н	NH ₂	H	I
acyl	acyl	NH ₂	H	H
acyl	acyl	NH ₂	H	NH ₂
acyl	acyl	NH ₂	H	NH-cyclopropyl
acyl	acyl	NH ₂	H	NH-methyl
acyl	acyl	NH ₂	H	NH-ethyl
acyl	acyl	NH ₂	H	NH-acetyl
acyl	acyl	NH ₂	H	OH
acyl	acyl	NH ₂	H	OMe
acyl	acyl	NH ₂	H	OEt
acyl	acyl	NH ₂	H	O-cyclopropyl
acyl	acyl	NH ₂	H	O-acetyl
acyı	acyı	11172	<u>ГД</u>	U-acetyl

R ²	R ³	X ¹	X ²	Y
acyl	acyl	NH ₂	H	SH
acyl	acyl	NH ₂	H	SMe
acyl	acyl	NH ₂	H	SEt
acyl	acyl	NH ₂	H	S-cyclopropyl
acyl	acyl	NH ₂	H	F
acyl	acyl	NH ₂	H	Cl
acyl	acyl	NH ₂	H	Br
acyl	acyl	NH ₂	H	I
acyl	amino acid	NH ₂	H	H
acyl	amino acid	NH ₂	H	NH ₂
acyl	amino acid	NH ₂	H	NH-cyclopropyl
acyl	amino acid	NH ₂	Н	NH-methyl
acyl	amino acid	NH ₂	Н	NH-ethyl
acyl	amino acid	NH ₂	H	NH-acetyl
acyl	amino acid	NH ₂	Н	OH
acyl	amino acid	NH ₂	Н	OMe
acyl	amino acid	NH ₂	Н	OEt
acyl	amino acid	NH ₂	H	O-cyclopropyl
acyl	amino acid	NH ₂	Н	O-acetyl
acyl	amino acid	NH ₂	H	SH
acyl	amino acid	NH ₂	H	SMe
acyl	amino acid	NH ₂	H	SEt
acyl	amino acid	NH ₂	H	S-cyclopropyl
acyl	amino acid	NH ₂	H	F
acyl	amino acid	NH ₂	H	Cl
acyl	amino acid	NH ₂	H	Br
acyl	amino acid	NH ₂	H	I
H	acyl	NH ₂	H	H
H	acyl	NH ₂	H	NH ₂
H	acyl	NH ₂	H	NH-cyclopropyl
H	acyl	NH ₂	H	NH-methyl
H	acyl	NH ₂	Н	NH-ethyl
H	acyl	NH ₂	H	NH-acetyl
H	acyl	NH ₂	H	OH
H	acyl	NH ₂	H	OMe
H	acyl	NH ₂	H	OEt
Н	acyl	NH ₂	H	O-cyclopropyl
<u>H</u>	acyl	NH ₂	H	O-acetyl -
H	acyl	NH ₂	H	SH
H	acyl	NH ₂	H	SMe
H	acyl	NH ₂	H	SEt
H	acyl	NH ₂	H_	S-cyclopropyl
H	acyl	NH ₂	H	F
H	acyl	NH ₂	H	Cl
Н	acyl	NH ₂	H	Br
Н	acyl	NH ₂	Н	I
Н	amino acid	NH ₂	H	Н

\mathbb{R}^2	R ³	\mathbf{X}^{1}	X ²	Y
H	amino acid	NH ₂	H	NH ₂
H	amino acid	NH ₂	H	NH-cyclopropyl
Н	amino acid	NH ₂	H	NH-methyl
Н	amino acid	NH ₂	H	NH-ethyl
H	amino acid	NH ₂	H	NH-acetyl
H	amino acid	NH ₂	H	OH
Н	amino acid	NH ₂	H	OMe
H	amino acid	NH ₂	H	OEt
H	amino acid	NH ₂	H	O-cyclopropyl
H	amino acid	NH ₂	H	O-acetyl
H	amino acid	NH ₂	H	SH
H	amino acid	NH ₂	H	SMe
H	amino acid	NH ₂	H	SEt
H	amino acid	NH ₂	H	S-cyclopropyl
H	amino acid	NH ₂	H	F
H	amino acid	NH ₂	H	CI
H	amino acid	NH ₂	H	Br
H	amino acid	NH ₂	H	I
amino acid	amino acid	NH ₂	H	H
amino acid	amino acid	NH ₂	H	NH ₂
amino acid	amino acid	NH ₂	H	NH-cyclopropyl
amino acid	amino acid	NH ₂	H	NH-methyl
amino acid	amino acid	NH ₂	H	NH-ethyl
amino acid	amino acid	NH ₂	Н	NH-acetyl
amino acid	amino acid	NH ₂	Н	OH
amino acid	amino acid	NH ₂	Н	OMe
amino acid	amino acid	NH ₂	Н	OEt
amino acid	amino acid	NH ₂	H	O-cyclopropyl
amino acid	amino acid	NH ₂	Н	O-acetyl
amino acid	amino acid	NH ₂	Н	SH
amino acid	amino acid	NH ₂	H	SMe
amino acid	amino acid	NH_2	Н	SEt
amino acid	amino acid	NH ₂	H	S-cyclopropyl
amino acid	amino acid	NH ₂	Н	F
amino acid	amino acid	NH ₂	H	Cl
amino acid	amino acid	NH ₂	Н	Br
amino acid	amino acid	NH ₂	H	I
amino acid	Н	NH ₂	Н	H
amino acid	Н	NH ₂	Н	NH ₂
amino acid	Н	NH ₂	Н	NH-cyclopropyl
amino acid	H	NH ₂	Н	NH-methyl
amino acid	Н	NH ₂	Н	NH-ethyl
amino acid	Н	NH ₂	H	NH-acetyl
amino acid	Н	NH ₂	H	ОН
amino acid	Н	NH ₂	H	OMe
amino acid	Н	NH ₂	H	OEt
amino acid	H	NH ₂	H	O-cyclopropyl

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	Н	NH ₂	H	O-acetyl
amino acid	H	NH ₂	Н	SH
amino acid	Н	NH ₂	Н	SMe
amino acid	H	NH ₂	Н	SEt
amino acid	Н	NH ₂	Н	S-cyclopropyl
amino acid	Н	NH ₂	H	F
amino acid	H	NH ₂	Н	Cl
amino acid	Н	NH ₂	Н	Br
amino acid	H	NH ₂	H	I
amino acid	acyl	NH ₂	Н	Н
amino acid	acyl	NH ₂	Н	NH ₂
amino acid	acyl	NH ₂	H	NH-cyclopropyl
amino acid	acyl	NH ₂	Н	NH-methyl
amino acid	acyl	NH ₂	H	NH-ethyl
amino acid	acyl	NH ₂	Н	NH-acetyl
amino acid	acyl	NH ₂	Н	OH
amino acid	acyl	NH ₂	H	OMe
amino acid	acyl	NH ₂	Н	OEt
amino acid	acyl	NH ₂	H	O-cyclopropyl
amino acid	acyl	NH ₂	H	O-acetyl
amino acid	acyl	NH ₂	Н	SH
amino acid	acyl	NH ₂	Н	SMe
amino acid	acyl	NH ₂	Н	SEt
amino acid	acyl	NH ₂	Н	S-cyclopropyl
amino acid	acyl	NH ₂	H	F
amino acid	acyl	NH ₂	Н	Cl
amino acid	acyl .	NH ₂	Н	Br
amino acid	acyl	NH ₂	H	I
acyl	Н	SH	Н	Н
acyl	Н	SH	Н	NH ₂
acyl	Н	SH	H	NH-cyclopropyl
acyl	Н	SH	Н	NH-methyl
acyl	H	SH	H	NH-ethyl
acyl	H	SH	H_	NH-acetyl
acyl	Н	SH	H	ОН
acyl	Н	SH	Н	OMe
acyl	Н	SH	Н	OEt
acyl	H	SH	Н	O-cyclopropyl
acyl	H	SH	Н	O-acetyl
acyl	H	SH	H	SH
acyl	Н	SH	H	SMe
acyl	Н	SH	H	SEt
acyl	Н	SH	H	S-cyclopropyl
acyl	Н	SH	H	F
acyl	Н	SH	H	Cl
acyl	H	SH	H	Br
acyl	Н	SH	H	I

R ²	\mathbb{R}^3	XI	X ²	Y
acyl	acyl	SH	H	H
acyl	acyl	SH	Н	NH ₂
acyl	acyl	SH	H	NH-cyclopropyl
acyl	acyl	SH	H	NH-methyl
acyl	acyl	SH	H	NH-ethyl
acyl	acyl	SH	H	NH-acetyl
acyl	acyl	SH	Н	OH
acyl	acyl	SH	Н	OMe
acyl	acyl	SH	Н	OEt
acyl	acyl	SH	Н	O-cyclopropyl
acyl	acyl	SH	Н	O-acetyl
acyl	acyl	SH	Н	SH
acyl	acyl	SH	Н	SMe
acyl	acyl	SH	Н	SEt
acyl	acyl	SH	H	S-cyclopropyl
acyl	acyl	SH	Н	F
acyl	acyl	SH	Н	Cl
acyl	acyl	SH	Н	Br
acyl	acyl	SH	H	I
acyl	amino acid	SH	Н	Н
acyl	amino acid	SH	Н	NH ₂
acyl	amino acid	SH	Н	NH-cyclopropyl
acyl	amino acid	SH	H	NH-methyl
acyl	amino acid	SH	H	NH-ethyl
acyl	amino acid_	SH	H	NH-acetyl
acyl	amino acid	SH	Н	OH
acyl	amino acid	SH	H	OMe
acyl	amino acid	SH	H	OEt
acyl	amino acid	SH	H	O-cyclopropyl
acyl	amino acid	SH	H	O-acetyl
acyl	amino acid	SH	H	SH
acyl	amino acid	SH	H	SMe
acyl	amino acid	SH	H	SEt
acyl	amino acid	SH	H	S-cyclopropyl
acyl	amino acid	SH	H	F
acyl	amino acid	SH	H	Cl
acyl	amino acid	SH	H	Br
acyl	amino acid	SH	H	I
H	acyl	SH	H	H
H	acyl	SH	H	NH ₂
H	acyl	SH	H	NH-cyclopropyl
H	acyl	SH	H	NH-methyl
H	acyl	SH	H	NH-ethyl
H	acyl	SH	H	NH-acetyl
H	acyl	SH	H	OH
H	acyl	SH	H	OMe
H	acyl	SH	H	OEt

R ³	\mathbf{X}^{1}	X ²	Y
acyl	SH	H	O-cyclopropyl
acyl	SH	H	O-acetyl
	SH	H	SH
	SH	H	SMe
			SEt
			S-cyclopropyl
			F
			Cl
			Br
			I
			H
			NH ₂
			NH-cyclopropyl
			NH-methyl
			NH-ethyl
			NH-acetyl
			OH
			OMe
			OEt
			O-cyclopropyl
amino acid			O-acetyl
			SH
			SMe
			SEt
			S-cyclopropyl
amino acid			F
amino acid	SH	H	Cl
amino acid	SH	H	Br
amino acid	SH	H	I
amino acid	SH	Н	Н
amino acid	SH	Н	NH ₂
amino acid	SH	H	NH-cyclopropyl
amino acid	SH	Н	NH-methyl
amino acid	SH	H	NH-ethyl
amino acid	SH	Н	NH-acetyl
amino acid	SH	Н	OH
amino acid	SH	Н	OMe
amino acid			OEt
amino acid	SH	H	O-cyclopropyl
amino acid	SH	Н	O-acetyl
amino acid		Н	SH
	SH		SMe
amino acid			SEt
			S-cyclopropyl
amino acid	SH	H	F
		_ 1	
amino acid	SH	H	Cl
	acyl acyl acyl acyl acyl acyl acyl acyl	acyl SH amino acid SH	acyl SH H amino acid SH H

\mathbb{R}^2	\mathbb{R}^3	\mathbf{X}^{1}	X ²	Y
amino acid	amino acid	SH	H	I
amino acid	H	SH	H	Н
amino acid	Н	SH	H	NH ₂
amino acid	Н	SH	H	NH-cyclopropyl
amino acid	Н	SH	H	NH-methyl
amino acid	H	SH	H	NH-ethyl
amino acid	H	SH	Н	NH-acetyl
amino acid	H	SH	H	OH
amino acid	Н	SH	H	OMe
amino acid	H	SH	H	OEt
amino acid	H	SH	H	O-cyclopropyl
amino acid	H	SH	H	O-acetyl
amino acid	H	SH	H	SH
amino acid	H	SH	H	SMe
amino acid	Н	SH	H	SEt
amino acid	Н	SH	H	S-cyclopropyl
amino acid	H	SH	H	F
amino acid	H	SH	Н	Cl
amino acid	H	SH	H	Br
amino acid	Н	SH	H	I
amino acid	acyl	SH	H	Н
amino acid	acyl	SH	H	NH ₂
amino acid	acyl	SH	H	NH-cyclopropyl
amino acid	acyl	SH	Н	NH-methyl
amino acid	acyl	SH	Н	NH-ethyl
amino acid	acyl	SH	Н	NH-acetyl
amino acid	acyl	SH	H	ОН
amino acid	acyl	SH	H_	OMe
amino acid	acyl	SH	Н	OEt
amino acid	acyl	SH	H	O-cyclopropyl
amino acid	acyl	SH	H	O-acetyl
amino acid	acyl	SH	H	SH
amino acid	acyl	SH	H	SMe
amino acid	acyl	SH	H	SEt
amino acid	acyl	SH	H	S-cyclopropyl
amino acid	acyl	SH	H	F
amino acid	acyl	SH	H	CI
amino acid	acyl	SH	H	Br
amino acid	acyl	SH	Н	I
acyl	Н	OH	H	Н
acyl	Н	OH	Н	NH ₂
acyl	Н	OH	H	NH-cyclopropyl
acyl	H	OH	H	NH-methyl
acyl	Н	OH	Н	NH-ethyl
acyl	Н	ОН	Н	NH-acetyl
acyl	Н	ОН	Н	OH
acyl	Н	ОН	H	OMe

R ²	R ³	X ¹	X ²	Y
acyl	H	OH	Н	OEt
acyl	Н	OH	Н	O-cyclopropyl
acyl	Н	ОН	H	O-acetyl
acyl	H	ОН	H	SH
acyl	H	OH	H	SMe
acyl	H	OH	H	SEt
acyl	H	OH	H	S-cyclopropyl
acyl		OH	H	F
acyl	H	OH	H	Cl
acyl	H	OH	H	Br
acyl	— H	OH	H	I
acyl	acyl	OH	H	H
acyl	acyl	OH	H	NH ₂
acyl	acyl	OH	H	NH-cyclopropyl
acyl	acyl	OH	H	NH-methyl
acyl	acyl	OH	H	NH-ethyl
acyl	acyl	OH	H	NH-acetyl
acyl	acyl	OH	H	OH OH
acyl	acyl	OH	H	OMe
acyl	acyl	OH	H	OEt
acyl	acyl	OH	H	O-cyclopropyl
acyl	acyl	OH	H	O-acetyl
acyl	acyl	OH	H H	SH
acyl	acyl	OH	H	SMe
acyl	acyl	OH	H .	SEt
acyl	acyl	OH	H	S-cyclopropyl
acyl	acyl	OH	H	F
acyl	acyl	OH	H	Cl
acyl	acyl	OH	$\frac{11}{H}$	Br
acyl	acyl	OH	H	I
acyl	amino acid	OH	$\frac{H}{H}$	H
acyl	amino acid	OH	H	NH ₂
acyl	amino acid	OH	H	NH-cyclopropyl
acyl	amino acid	OH	H	NH-methyl
acyl	amino acid	OH	H	NH-ethyl
acyl	amino acid	OH	H	NH-acetyl
acyl	amino acid	OH	H	OH
acyl	amino acid	OH	H	OMe
acyl	amino acid	OH	H H	OEt
acyl	amino acid	OH	H	O-cyclopropyl
acyl	amino acid	OH	$\frac{H}{H}$	O-acetyl
acyl	amino acid	OH	H	SH
acyl	amino acid	OH	$+\frac{n}{H}$	SMe
	amino acid		H	···
acyl		OH		SEt S avalantati
acyl	amino acid	OH	H	S-cyclopropyl
acyl	amino acid	OH	H	F
acyl	amino acid	OH	H	Cl

\mathbb{R}^2	R ³	X ¹	X ²	Y
acyl	amino acid	OH	H	Br
acyl	amino acid	OH	H	I
Н	acyl	OH	Н	H
Н	acyl	OH	H	NH ₂
H	acyl	OH	H	NH-cyclopropyl
Н	acyl	OH	H	NH-methyl
H	acyl	OH	H	NH-ethyl
H	acyl	OH	H	NH-acetyl
H	acyl	OH	Н	OH
Н	acyl	OH	Н	OMe
H	acyl	OH	H	OEt
H	acyl	OH	Н	O-cyclopropyl
H	acyl	ОН	H	O-acetyl
H	acyl	OH	Н	SH
H	acyl	OH	Н	SMe
H	acyl	OH	H	SEt
H	acyl	OH	H	S-cyclopropyl
Н	acyl	OH	H	F
H	acyl	OH	Н	CI
Н	acyl	OH	Н	Br
H	acyl	OH	H	I
Н	amino acid	OH	H	H
H	amino acid	OH	Н	NH ₂
Н	amino acid	OH	H	NH-cyclopropyl
H	amino acid	ОН	H	NH-methyl
H	amino acid	OH	H	NH-ethyl
Н	amino acid	OH	H	NH-acetyl
H	amino acid	OH	H	ОН
H	amino acid	OH	H	OMe
Н ,	amino acid	OH	H	OEt
H	amino acid	OH	H	O-cyclopropyl
H	amino acid	OH	H	O-acetyl
Н	amino acid	OH	H	SH
H	amino acid	OH	H	SMe
H	amino acid	OH	H	SEt
H	amino acid	OH	H	S-cyclopropyl
H	amino acid	OH	H	F
H	amino acid	OH	H	Cl
H	amino acid	OH	H	Br
H	amino acid	OH	H	I
amino acid	amino acid	OH	H	H
amino acid	amino acid	OH	H	NH ₂
amino acid	amino acid	OH	H	NH-cyclopropyl
amino acid	amino acid	OH	H	NH-methyl
amino acid	amino acid	ОН	H	NH-ethyl
amino acid	amino acid	OH	H	NH-acetyl
amino acid	amino acid	OH	H	OH

\mathbb{R}^2	\mathbb{R}^3	X ¹	X ²	Y
amino acid	amino acid	OH .	H	OMe
amino acid	amino acid	ОН	H	OEt
amino acid	amino acid	OH	H	O-cyclopropyl
amino acid	amino acid	OH	H	O-acetyl
amino acid	amino acid	OH	H	SH
amino acid	amino acid	OH	H	SMe
amino acid	amino acid	OH	Н	SEt
amino acid	amino acid	OH	H	S-cyclopropyl
amino acid	amino acid	OH	H	F
amino acid	amino acid	OH	H	Cl
amino acid	amino acid	OH	H	Br
amino acid	amino acid	OH	H	Ī
amino acid	Н	OH	Н	Н
amino acid	Н	OH	H	NH ₂
amino acid	Н	OH	H	NH-cyclopropyl
amino acid	Н	OH	H	NH-methyl
amino acid	Н	OH	H	NH-ethyl
amino acid	H	OH	H	NH-acetyl
amino acid	Н	ОН	H	OH
amino acid	Н	OH	H	OMe
amino acid	Н	OH	H	OEt
amino acid	H	ОН	H	O-cyclopropyl
amino acid	H	OH	H	O-acetyl
amino acid	H	OH	Н	SH
amino acid	Н	ОН	H	SMe
amino acid	H	OH	H	SEt
amino acid	H	OH	Н	S-cyclopropyl
amino acid	H	OH	H	F
amino acid	H	OH	Н	Cl
amino acid	H	OH	H	Br
amino acid	H	OH	H	I
amino acid	acyl	OH	Н	H
amino acid	acyl	OH	H	NH ₂
amino acid	acyl	OH	H	NH-cyclopropyl
amino acid	acyl	OH	H	NH-methyl
amino acid	acyl	OH	H	NH-ethyl
amino acid	acyl	OH	H	NH-acetyl
amino acid	acyl	OH	H	ОН
amino acid	acyl	OH	H	OMe
amino acid	acyl	OH	H	OEt
amino acid	acyl	OH	H	O-cyclopropyl
amino acid	acyl	OH	H	O-acetyl
amino acid	acyl	OH	H	SH
amino acid	acyl	OH	H	SMe
amino acid	acyl	OH	H	SEt
amino acid	acyl	OH	H	S-cyclopropyl
amino acid	acyl	OH	H	F
allino aciu	acyı	JUH	<u> </u>	

\mathbb{R}^2	R ³	X ¹	X ²	Y	
amino acid	acyl	ОН	H	Cl	·
amino acid	acyl	OH	Н	Br	
amino acid	acyl	OH	H	I	

Table 3

\mathbb{R}^3	R ⁶	X	Base
Н	CH ₃	0	6-Methylthymine
H	CH ₃	0	6-Methyluracil
Н	CH ₃	0	8-Methylguanine
Н	CH ₃	0	6-Methylcytosine
H		0	8-Methyladenine
Н	CH ₃	0	8-Methylhypoxanthine
Н	CH ₃	О	5-Fluoro-6-methylcytosine
Н		0	5-Fluoro-6-methyluracil
Н		0	2-Fluoro-8-methyladenine
H		0	2-Fluoro-8-methylhypoxanthine
Н		0	2-amino-8-methyladenine
Н			2-amino-8-methylhypoxanthine
			2-N-acetyl-8-methylguanine
			4-N-acetyl-8-methylcytosine
		ō	6-N-acetyl-8-methyladenine
			4-N-acetyl-5-fluoro-8-methylcytosine
		·	6-N-acetyl-2-fluoro-8-methyladenine
			6-N-acetyl-2-amino-8-methyladenine
			2-N-acetylamino-8-methyladenine
			2-N-acetylamino-8-methylhypoxanthine
+			6-Methylthymine
+			6-Methyluracil
		0	8-Methylguanine
		0	6-Methylcytosine
		0	8-Methyladenine
	+	o	8-Methylhypoxanthine
 		O	5-Fluoro-6-methylcytosine
		О	5-Fluoro-6-methyluracil
		O	2-Fluoro-8-methyladenine
		O	2-Fluoro-8-methylhypoxanthine
		O	2-amino-8-methyladenine
acyl	CH ₃	О	2-amino-8-methylhypoxanthine
		O	2-N-acetyl-8-methylguanine
acyl	CH ₃	0	4-N-acetyl-8-methylcytosine
acyl	CH ₃	0	6-N-acetyl-8-methyladenine
acyl	CH ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
+		0	6-N-acetyl-2-fluoro-8-methyladenine
	CH ₃	0	6-N-acetyl-2-amino-8-methyladenine
		-	2-N-acetylamino-8-methyladenine
+	CH ₃	Ō	2-N-acetylamino-8-methylhypoxanthine
		o	6-Methylthymine
			6-Methyluracil
			8-Methylguanine
			6-Methylcytosine
amino acid	CH ₃	0	8-Methyladenine
	H H H H H H H H H H H H H H H H H H H	H CH ₃ Acyl CH ₄ Ac	H CH ₃ O CH CCH ₃ O CCH CCH ₃ O CCH CCH CCH CCH CCH CCH CCH CCH CCH CC

R ²	R ³	R ⁶	X	Base
acyl	amino acid	CH ₃	0	8-Methylhypoxanthine
acyl	amino acid	CH ₃	0	5-Fluoro-6-methylcytosine
acyl	amino acid	CH ₃	0	5-Fluoro-6-methyluracil
acyl	amino acid	CH ₃	0	2-Fluoro-8-methyladenine
acyl	amino acid	CH ₃	0	2-Fluoro-8-methylhypoxanthine
acyl	amino acid	CH ₃	0	2-amino-8-methyladenine
acyl	amino acid	CH ₃	0	2-amino-8-methylhypoxanthine
acyl	amino acid	CH ₃	0	2-N-acetyl-8-methylguanine
acyl	amino acid	CH ₃	0	4-N-acetyl-8-methylcytosine
acyl	amino acid	CH ₃	0	6-N-acetyl-8-methyladenine
acyl	amino acid	CH ₃	0	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	amino acid	CH ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
acyl	amino acid	CH ₃	0	6-N-acetyl-2-amino-8-methyladenine
acyl	amino acid	CH ₃	0	2-N-acetylamino-8-methyladenine
acyl	amino acid	CH ₃	0	2-N-acetylamino-8-methylhypoxanthine
Н	acyl	CH ₃	0	6-Methylthymine
H	acyl	CH ₃	0	6-Methyluracil
Н	acyl	CH ₃	0	8-Methylguanine
Н	acyl	CH ₃	0	6-Methylcytosine
Н	acyl	CH ₃	0	8-Methyladenine
Н	acyl	CH ₃	0	8-Methylhypoxanthine
Н	acyl	CH ₃	0	5-Fluoro-6-methylcytosine
Н	acyl	CH ₃	0	5-Fluoro-6-methyluracil
H	acyl	CH ₃	0	2-Fluoro-8-methyladenine
H	acyl	CH ₃	0	2-Fluoro-8-methylhypoxanthine
Н	acyl	CH ₃	0	2-amino-8-methyladenine
Н	acyl	CH ₃	0	2-amino-8-methylhypoxanthine
Н	acyl	CH ₃	0	2-N-acetyl-8-methylguanine
Н	acyl	CH ₃	0	4-N-acetyl-8-methylcytosine
H	acyl	CH ₃	0	6-N-acetyl-8-methyladenine
Н	acyl	CH ₃	0	4-N-acetyl-5-fluoro-8-methylcytosine
Н	acyl	CH ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
H	acyl	CH ₃	O	6-N-acetyl-2-amino-8-methyladenine
H	acyl	CH ₃	О	2-N-acetylamino-8-methyladenine
H	acyl	CH ₃	0	2-N-acetylamino-8-methylhypoxanthine
H	amino acid	CH ₃	0	6-Methylthymine
H	amino acid	CH ₃	О	6-Methyluracil
H	amino acid	CH ₃	0	8-Methylguanine
Н	amino acid	CH ₃	0	6-Methylcytosine
Н	amino acid	CH ₃	0	8-Methyladenine
H	amino acid	CH ₃	0	8-Methylhypoxanthine
H	amino acid	CH ₃	0	5-Fluoro-6-methylcytosine
Н	amino acid	CH ₃	0	5-Fluoro-6-methyluracil
Η,	amino acid	CH ₃	0	2-Fluoro-8-methyladenine
Н	amino acid	CH ₃	0	2-Fluoro-8-methylhypoxanthine
H	amino acid	CH ₃	0	2-amino-8-methyladenine
H	amino acid	CH ₃	0	2-amino-8-methylhypoxanthine

\mathbb{R}^2	\mathbb{R}^3	R ⁶	X	Base
H	amino acid	CH ₃	0	2-N-acetyl-8-methylguanine
H	amino acid	CH ₃	0	4-N-acetyl-8-methylcytosine
H	amino acid	CH ₃	0	6-N-acetyl-8-methyladenine
H	amino acid	CH ₃	0	4-N-acetyl-5-fluoro-8-methylcytosine
H	amino acid	CH ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
H	amino acid	CH ₃	0	6-N-acetyl-2-amino-8-methyladenine
H	amino acid	CH ₃	0	2-N-acetylamino-8-methyladenine
H	amino acid	CH ₃	0	2-N-acetylamino-8-methylhypoxanthine
amino acid	amino acid	CH ₃	0	6-Methylthymine
amino acid	amino acid	CH ₃	0	6-Methyluracil
amino acid	amino acid	CH ₃	0	8-Methylguanine
amino acid	amino acid	CH ₃	0	6-Methylcytosine
amino acid	amino acid	CH ₃	0	8-Methyladenine
amino acid	amino acid	CH ₃	0	8-Methylhypoxanthine
amino acid	amino acid	CH ₃	0	5-Fluoro-6-methylcytosine
amino acid	amino acid	CH ₃	0	5-Fluoro-6-methyluracil
amino acid	amino acid	CH ₃	0	2-Fluoro-8-methyladenine
amino acid	amino acid	CH ₃	0	2-Fluoro-8-methylhypoxanthine
amino acid	amino acid	CH ₃	0	2-amino-8-methyladenine
amino acid	amino acid	CH ₃	0	2-amino-8-methylhypoxanthine
amino acid	amino acid	CH ₃	0	2-N-acetyl-8-methylguanine
amino acid	amino acid	CH ₃	0	4-N-acetyl-8-methylcytosine
amino acid	amino acid	CH ₃	O	6-N-acetyl-8-methyladenine
amino acid	amino acid	CH ₃	О	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	amino acid	CH₃	О	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	amino acid	CH ₃	0	6-N-acetyl-2-amino-8-methyladenine
amino acid	amino acid	CH ₃	0	2-N-acetylamino-8-methyladenine
amino acid	amino acid	CH ₃	O	2-N-acetylamino-8-methylhypoxanthine
amino acid	H	CH ₃	О	6-Methylthymine
amino acid	Н	CH ₃	0	6-Methyluracil
amino acid	Н	CH ₃	О	8-Methylguanine
amino acid	H	CH ₃	O	6-Methylcytosine
amino acid	Н	CH ₃	O	8-Methyladenine
amino acid	H	CH ₃	0	8-Methylhypoxanthine
amino acid	H	CH ₃	0	5-Fluoro-6-methylcytosine
amino acid	Н	CH ₃	0	5-Fluoro-6-methyluracil
amino acid	Н	CH ₃	0	2-Fluoro-8-methyladenine
amino acid	Н	CH ₃	0	2-Fluoro-8-methylhypoxanthine
amino acid	H	CH ₃	0	2-amino-8-methyladenine
amino acid	H	CH ₃	0	2-amino-8-methylhypoxanthine
amino acid	H	CH ₃	0	2-N-acetyl-8-methylguanine
amino acid	H	CH ₃	0	4-N-acetyl-8-methylcytosine
amino acid	H	CH ₃	0	6-N-acetyl-8-methyladenine
amino acid	H	CH ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	Н	CH ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	Н	CH ₃	0	6-N-acetyl-2-amino-8-methyladenine
amino acid	H	CH ₃	0	2-N-acetylamino-8-methyladenine

R ²	R ³	R ⁶	X	Base
amino acid	H	CH ₃	0	2-N-acetylamino-8-methylhypoxanthine
amino acid	acyl	CH ₃	0	6-Methylthymine
amino acid	acyl	CH ₃	0	6-Methyluracil
amino acid	acyl	CH ₃	0	8-Methylguanine
amino acid	acyl	CH ₃	0	6-Methylcytosine
amino acid	acyl	CH ₃	0	8-Methyladenine
amino acid	acyl	CH ₃	O	8-Methylhypoxanthine
amino acid	acyl	CH ₃	O	5-Fluoro-6-methylcytosine
amino acid	acyl	CH ₃	0	5-Fluoro-6-methyluracil
amino acid	acyl	CH ₃	0	2-Fluoro-8-methyladenine
amino acid	acyl	CH ₃	0	2-Fluoro-8-methylhypoxanthine
amino acid	acyl	CH ₃	0	2-amino-8-methyladenine
amino acid	acyl	CH ₃	0	2-amino-8-methylhypoxanthine
amino acid	acyl	CH ₃	0	2-N-acetyl-8-methylguanine
amino acid	acyl	CH ₃	0	4-N-acetyl-8-methylcytosine
amino acid	acyl	CH ₃	O	6-N-acetyl-8-methyladenine
amino acid	acyl	CH ₃	0	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	acyl	CH ₃	o	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	acyl	CH ₃	o	6-N-acetyl-2-amino-8-methyladenine
amino acid	acyl	CH ₃	ō	2-N-acetylamino-8-methyladenine
amino acid	acyl	CH ₃	ō	2-N-acetylamino-8-methylhypoxanthine
acyl	Н	CF ₃	O	6-Methylthymine
acyl	Н	CF ₃	0	6-Methyluracil
acyl	Н	CF ₃	Ō	8-Methylguanine
acyl	Н	CF ₃	Ŏ	6-Methylcytosine
acyl	Н	CF ₃	Ō	8-Methyladenine
acyl	Н	CF ₃	0	8-Methylhypoxanthine
acyl	Н	CF ₃	O	5-Fluoro-6-methylcytosine
acyl	Н	CF ₃	O	5-Fluoro-6-methyluracil
acyl	Н	CF ₃	0	2-Fluoro-8-methyladenine
acyl	Н	CF ₃	O	2-Fluoro-8-methylhypoxanthine
acyl	Н	CF ₃	O	2-amino-8-methyladenine
acyl	H	CF ₃	0	2-amino-8-methylhypoxanthine
acyl	Н	CF ₃	0	2-N-acetyl-8-methylguanine
acyl	Н	CF ₃	0	4-N-acetyl-8-methylcytosine
acyl	Н	CF ₃	O	6-N-acetyl-8-methyladenine
acyl	Н	CF ₃	ō	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	Н	CF ₃	ō	6-N-acetyl-2-fluoro-8-methyladenine
acyl	H	CF ₃	Ö	6-N-acetyl-2-amino-8-methyladenine
acyl	Н	CF ₃	o	2-N-acetylamino-8-methyladenine
acyl	H	CF ₃	ŏ	2-N-acetylamino-8-methylhypoxanthine
acyl	acyl	CF ₃	0	6-Methylthymine
acyl	acyl	CF ₃	O	6-Methyluracil
acyl	acyl	CF ₃	0	8-Methylguanine
acyl	acyl	CF ₃	0	6-Methylcytosine
acyl	acyl	CF ₃	0	8-Methyladenine
acyl		CF ₃	0	
acyı	acyl	СГЗ	LU	8-Methylhypoxanthine

R ²	R ³	R ⁶	X	Base
acyl	acyl	CF ₃	0	5-Fluoro-6-methylcytosine
acyl	acyl	CF ₃	0	5-Fluoro-6-methyluracil
acyl	acyl	CF ₃	0	2-Fluoro-8-methyladenine
acyl	acyl	CF ₃	0	2-Fluoro-8-methylhypoxanthine
acyl	acyl	CF ₃	0	2-amino-8-methyladenine
acyl	acyl	CF ₃	0	2-amino-8-methylhypoxanthine
acyl	acyl	CF ₃	0	2-N-acetyl-8-methylguanine
acyl	acyl	CF ₃	0	4-N-acetyl-8-methylcytosine
acyl	acyl	CF ₃	0	6-N-acetyl-8-methyladenine
acyl	acyl	CF ₃	0	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	acyl	CF ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
acyl	acyl	CF ₃	0	6-N-acetyl-2-amino-8-methyladenine
acyl	acyl	CF ₃	0	2-N-acetylamino-8-methyladenine
acyl	acyl	CF ₃	О	2-N-acetylamino-8-methylhypoxanthine
acyl	amino acid	CF ₃	0	6-Methylthymine
acyl	amino acid	CF ₃	0	6-Methyluracil
acyl	amino acid	CF ₃	0	8-Methylguanine
acyl	amino acid	CF ₃	0	6-Methylcytosine
acyl	amino acid	CF ₃	0	8-Methyladenine
acyl	amino acid	CF ₃	О	8-Methylhypoxanthine
acyl	amino acid	CF ₃	О	5-Fluoro-6-methylcytosine
acyl	amino acid	CF ₃	. O	5-Fluoro-6-methyluracil
acyl	amino acid	CF ₃	О	2-Fluoro-8-methyladenine
acyl	amino acid	CF ₃	О	2-Fluoro-8-methylhypoxanthine
acyl	amino acid	CF ₃	О	2-amino-8-methyladenine
acyl	amino acid	CF ₃	О	2-amino-8-methylhypoxanthine
acyl	amino acid	CF ₃	0	2-N-acetyl-8-methylguanine
acyl	amino acid	CF ₃	0	4-N-acetyl-8-methylcytosine
acyl	amino acid	CF ₃	O	6-N-acetyl-8-methyladenine
acyl	amino acid	CF ₃	О	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	amino acid	CF ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
acyl	amino acid	CF ₃	0	6-N-acetyl-2-amino-8-methyladenine
acyl	amino acid	CF ₃	. O	2-N-acetylamino-8-methyladenine
acyl	amino acid	CF ₃	0	2-N-acetylamino-8-methylhypoxanthine
H	acyl	CF ₃	0	6-Methylthymine
Н	acyl	CF ₃	0	6-Methyluracil
H	acyl	CF ₃	0	8-Methylguanine
H	acyl	CF ₃	0	6-Methylcytosine
H	acyl	CF ₃	0	8-Methyladenine
H	acyl	CF ₃	О	8-Methylhypoxanthine
H	acyl	CF ₃	0	5-Fluoro-6-methylcytosine
Н	acyl	CF ₃	0	5-Fluoro-6-methyluracil
H	acyl	CF ₃	0	2-Fluoro-8-methyladenine
H	acyl	CF ₃	0	2-Fluoro-8-methylhypoxanthine
Н	acyl	CF ₃	0	2-amino-8-methyladenine
Н	acyl	CF ₃	0	2-amino-8-methylhypoxanthine
H	acyl	CF ₃	0	2-N-acetyl-8-methylguanine

\mathbb{R}^2	\mathbb{R}^3	R ⁶	X	Base
H	acyl	CF ₃	0	4-N-acetyl-8-methylcytosine
H	acyl	CF ₃	0	6-N-acetyl-8-methyladenine
	acyl	CF ₃	0	4-N-acetyl-5-fluoro-8-methylcytosine
	acyl	CF ₃	О	6-N-acetyl-2-fluoro-8-methyladenine
	acyl	CF ₃	0	6-N-acetyl-2-amino-8-methyladenine
	acyl	CF ₃	0	2-N-acetylamino-8-methyladenine
	acyl	CF ₃	0	2-N-acetylamino-8-methylhypoxanthine
	amino acid	CF ₃	0	6-Methylthymine
	amino acid	CF ₃	0	6-Methyluracil
	amino acid	CF ₃	0	8-Methylguanine
H	amino acid	CF ₃	O	6-Methylcytosine
	amino acid	CF ₃	0	8-Methyladenine
H :	amino acid	CF ₃	0	8-Methylhypoxanthine
H	amino acid	CF ₃	0	5-Fluoro-6-methylcytosine
	amino acid	CF ₃	0	5-Fluoro-6-methyluracil
H	amino acid	CF ₃	0	2-Fluoro-8-methyladenine
H	amino acid	CF ₃	0	2-Fluoro-8-methylhypoxanthine
H	amino acid	CF ₃	0	2-amino-8-methyladenine
H	amino acid	CF ₃	0	2-amino-8-methylhypoxanthine
H	amino acid	CF ₃	0	2-N-acetyl-8-methylguanine
H	amino acid	CF ₃	O	4-N-acetyl-8-methylcytosine
H	amino acid	CF ₃	0	6-N-acetyl-8-methyladenine
H	amino acid	CF ₃	0	4-N-acetyl-5-fluoro-8-methylcytosine
H	amino acid	CF ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
H	amino acid	CF ₃	0	6-N-acetyl-2-amino-8-methyladenine
H	amino acid	CF ₃	0	2-N-acetylamino-8-methyladenine
H	amino acid	CF ₃	0	2-N-acetylamino-8-methylhypoxanthine
amino acid	amino acid	CF ₃	0	6-Methylthymine
	amino acid	CF ₃	0	6-Methyluracil
amino acid	amino acid	CF ₃	0	8-Methylguanine
amino acid	amino acid	CF ₃	0	6-Methylcytosine
amino acid	amino acid	CF ₃	0	8-Methyladenine
amino acid	amino acid	CF ₃	O	8-Methylhypoxanthine
amino acid	amino acid	CF ₃	0	5-Fluoro-6-methylcytosine
amino acid	amino acid	CF ₃	0	5-Fluoro-6-methyluracil
amino acid	amino acid	CF ₃	0	2-Fluoro-8-methyladenine
amino acid	amino acid	CF ₃	0	2-Fluoro-8-methylhypoxanthine
amino acid	amino acid	CF ₃	0	2-amino-8-methyladenine
amino acid	amino acid	CF ₃	0	2-amino-8-methylhypoxanthine
amino acid	amino acid	CF ₃	0	2-N-acetyl-8-methylguanine
amino acid	amino acid	CF ₃	0	4-N-acetyl-8-methylcytosine
amino acid	amino acid	CF ₃	0	6-N-acetyl-8-methyladenine
amino acid	amino acid	CF ₃	0	4-N-acetyl-5-fluoro-8-methylcytosine
	amino acid	CF ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
	amino acid	CF ₃	0	6-N-acetyl-2-amino-8-methyladenine
	amino acid	CF ₃	O	2-N-acetylamino-8-methyladenine
the same of the sa	amino acid	CF ₃	0	2-N-acetylamino-8-methylhypoxanthine

\mathbb{R}^2	R ³	R ⁶	X	Base
amino acid	Н	CF ₃	0	6-Methylthymine
amino acid	H	CF ₃	0	6-Methyluracil
amino acid	Н	CF ₃	0	8-Methylguanine
amino acid	H	CF ₃	0	6-Methylcytosine
amino acid	Н	CF ₃	0	8-Methyladenine
amino acid	H	CF ₃	0	8-Methylhypoxanthine
amino acid	Н	CF ₃	0	5-Fluoro-6-methylcytosine
amino acid	Н	CF ₃	0	5-Fluoro-6-methyluracil
amino acid	Н	CF ₃	0	2-Fluoro-8-methyladenine
amino acid	Н	CF ₃	O	2-Fluoro-8-methylhypoxanthine
amino acid	Н	CF ₃	0	2-amino-8-methyladenine
amino acid	Н	CF ₃	0	2-amino-8-methylhypoxanthine
amino acid	H	CF ₃	0	2-N-acetyl-8-methylguanine
amino acid	Н	CF ₃	0	4-N-acetyl-8-methylcytosine
amino acid	Н	CF ₃	0	6-N-acetyl-8-methyladenine
amino acid	Н	CF ₃	0	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	Н	CF ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	H	CF ₃	0	6-N-acetyl-2-amino-8-methyladenine
amino acid	H	CF ₃	0	2-N-acetylamino-8-methyladenine
amino acid	Н	CF ₃	О	2-N-acetylamino-8-methylhypoxanthine
amino acid	acyl	CF ₃	0	6-Methylthymine
amino acid	acyl	CF ₃	0	6-Methyluracil
amino acid	acyl	CF ₃	O	8-Methylguanine
amino acid	acyl	CF ₃	0	6-Methylcytosine
amino acid	acyl	CF ₃	0	8-Methyladenine
amino acid	acyl	CF ₃	0	8-Methylhypoxanthine
amino acid	acyl	CF ₃	0	5-Fluoro-6-methylcytosine
amino acid	acyl	CF ₃	0	5-Fluoro-6-methyluracil
amino acid	acyl	CF ₃	O	2-Fluoro-8-methyladenine
amino acid	acyl	CF ₃	0	2-Fluoro-8-methylhypoxanthine
amino acid	acyl	CF ₃	0	2-amino-8-methyladenine
amino acid	acyl	CF ₃	0	2-amino-8-methylhypoxanthine
amino acid	acyl	CF ₃	0	2-N-acetyl-8-methylguanine
amino acid	acyl	CF ₃	0	4-N-acetyl-8-methylcytosine
amino acid	acyl	CF ₃	0	6-N-acetyl-8-methyladenine
amino acid	acyl	CF ₃	0	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	acyl	CF ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	acyl	CF ₃	0	6-N-acetyl-2-amino-8-methyladenine
amino acid	acyl	CF ₃	O	2-N-acetylamino-8-methyladenine
amino acid	acyl	CF ₃	0	2-N-acetylamino-8-methylhypoxanthine
acyl	H	CH ₃	S	6-Methylthymine
acyl	H	CH ₃	S	6-Methyluracil
acyl	Н	CH ₃	S	8-Methylguanine
acyl	H	CH ₃	S	6-Methylcytosine
acyl	Н	CH ₃	S	8-Methyladenine
acyl	Н	CH ₃	S	8-Methylhypoxanthine
acyl	Н	CH ₃	S	5-Fluoro-6-methylcytosine

R ²	\mathbb{R}^3	R ⁶	X	Base
acyl	Н	CH ₃	S	5-Fluoro-6-methyluracil
acyl	Н	CH ₃	S	2-Fluoro-8-methyladenine
acyl	H	CH ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	H	CH ₃	S	2-amino-8-methyladenine
acyl	Н	CH ₃	S	2-amino-8-methylhypoxanthine
acyl	Н	CH ₃	S	2-N-acetyl-8-methylguanine
acyl	Н	CH ₃	S	4-N-acetyl-8-methylcytosine
acyl	Н	CH ₃	S	6-N-acetyl-8-methyladenine
acyl	Н	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	Н	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	Н	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	Н	CH ₃	S	2-N-acetylamino-8-methyladenine
acyl	H	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	acyl	CH ₃	S	6-Methylthymine
acyl	acyl	CH ₃	S	6-Methyluracil
acyl	acyl	CH ₃	S	8-Methylguanine
acyl	acyl	CH ₃	S	6-Methylcytosine
acyl	acyl	CH ₃	S	8-Methyladenine
acyl	acyl	CH ₃	S	8-Methylhypoxanthine
acyl	acyl	CH ₃	S	5-Fluoro-6-methylcytosine
acyl	acyl	CH ₃	S	5-Fluoro-6-methyluracil
acyl	acyl	CH ₃	S	2-Fluoro-8-methyladenine
acyl	acyl	CH ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	acyl	CH ₃	S	2-amino-8-methyladenine
acyl	acyl	CH ₃	S	2-amino-8-methylhypoxanthine
acyl	acyl	CH ₃	S	2-N-acetyl-8-methylguanine
acyl	acyl	CH ₃	S	4-N-acetyl-8-methylcytosine
acyl	acyl	CH ₃	S	6-N-acetyl-8-methyladenine
acyl	acyl	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	acyl	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	acyl	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	acyl	CH ₃	S	2-N-acetylamino-8-methyladenine
acyl	acyl	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	amino acid	CH ₃	S	6-Methylthymine
acyl	amino acid	CH ₃	S	6-Methyluracil
acyl	amino acid	CH ₃	S	8-Methylguanine
acyl	amino acid	CH ₃	S	6-Methylcytosine
acyl	amino acid	CH ₃	S	8-Methyladenine
acyl	amino acid	CH ₃	S	8-Methylhypoxanthine
acyl	amino acid	CH ₃	S	5-Fluoro-6-methylcytosine
acyl	amino acid	CH ₃	S	5-Fluoro-6-methyluracil
acyl	amino acid	CH ₃	S	2-Fluoro-8-methyladenine
acyl	amino acid	CH ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	amino acid	CH ₃	S	2-amino-8-methyladenine
acyl	amino acid	CH ₃	S	2-amino-8-methylhypoxanthine
acyl	amino acid	CH ₃	S	2-N-acetyl-8-methylguanine
acyl	amino acid	CH ₃	S	4-N-acetyl-8-methylcytosine

\mathbb{R}^2	\mathbb{R}^3	R ⁶	X	Base
acyl	amino acid	CH ₃	S	6-N-acetyl-8-methyladenine
acyl	amino acid	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	amino acid	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	amino acid	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	amino acid	CH ₃	S	2-N-acetylamino-8-methyladenine
acyl	amino acid	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
H	acyl	CH ₃	S	6-Methylthymine
Н	acyl	CH ₃	S	6-Methyluracil
H	acyl	CH ₃	S	8-Methylguanine
Н	acyl	CH ₃	S	6-Methylcytosine
Н	acyl	CH ₃	S	8-Methyladenine
Н	acyl	CH ₃	S	8-Methylhypoxanthine
H	acyl	CH ₃	S	5-Fluoro-6-methylcytosine
Н	acyl	CH ₃	S	5-Fluoro-6-methyluracil
Н	acyl	CH ₃	S	2-Fluoro-8-methyladenine
Н	acyl	CH ₃	S	2-Fluoro-8-methylhypoxanthine
H	acyl	CH ₃	S	2-amino-8-methyladenine
Н	acyl	CH ₃	S	2-amino-8-methylhypoxanthine
H	acyl	CH ₃	S	2-N-acetyl-8-methylguanine
Н	acyl	CH ₃	S	4-N-acetyl-8-methylcytosine
Н	acyl	CH ₃	S	6-N-acetyl-8-methyladenine
H	acyl	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
Н	acyl	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
H	acyl	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
H	acyl	CH ₃	S	2-N-acetylamino-8-methyladenine
Н	acyl	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
H	amino acid	CH ₃	S	6-Methylthymine
H	amino acid	CH ₃	S	6-Methyluracil
Н	amino acid	CH ₃	S	8-Methylguanine
Н	amino acid	CH ₃	S	6-Methylcytosine
H	amino acid	CH ₃	S	8-Methyladenine
H	amino acid	CH ₃	S	8-Methylhypoxanthine
Н	amino acid	CH ₃	S	5-Fluoro-6-methylcytosine
Н	amino acid	CH ₃	S	5-Fluoro-6-methyluracil
Н	amino acid	CH ₃	S	2-Fluoro-8-methyladenine
Н	amino acid	CH ₃	S	2-Fluoro-8-methylhypoxanthine
Н	amino acid	CH ₃	S	2-amino-8-methyladenine
H	amino acid	CH ₃	S	2-amino-8-methylhypoxanthine
H	amino acid	CH ₃	S	2-N-acetyl-8-methylguanine
H	amino acid	CH ₃	S	4-N-acetyl-8-methylcytosine
Н	amino acid	CH ₃	S	6-N-acetyl-8-methyladenine
Н	amino acid	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
H	amino acid	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
H	amino acid	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
Н	amino acid	CH ₃	S	2-N-acetylamino-8-methyladenine
H	amino acid	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	amino acid	CH ₃	S	6-Methylthymine

\mathbb{R}^2	R ³	R ⁶	X	Base
amino acid	amino acid	CH ₃	S	6-Methyluracil
amino acid	amino acid	CH ₃	S	8-Methylguanine
amino acid	amino acid	CH ₃	S	6-Methylcytosine
amino acid	amino acid	CH ₃	S	8-Methyladenine
amino acid	amino acid	CH ₃	S	8-Methylhypoxanthine
amino acid	amino acid	CH ₃	S	5-Fluoro-6-methylcytosine
amino acid	amino acid	CH ₃	S	5-Fluoro-6-methyluracil
amino acid	amino acid	CH ₃	S	2-Fluoro-8-methyladenine
amino acid	amino acid	CH ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	amino acid	CH ₃	S	2-amino-8-methyladenine
amino acid	amino acid	CH ₃	S	2-amino-8-methylhypoxanthine
amino acid	amino acid	CH ₃	S	2-N-acetyl-8-methylguanine
amino acid	amino acid	CH ₃	S	4-N-acetyl-8-methylcytosine
amino acid	amino acid	CH ₃	S	6-N-acetyl-8-methyladenine
amino acid	amino acid	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	amino acid	CH₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	amino acid	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	amino acid	CH ₃	S	2-N-acetylamino-8-methyladenine
amino acid	amino acid	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	Н	CH ₃	S	6-Methylthymine
amino acid	Н	CH ₃	S	6-Methyluracil
amino acid	H	CH ₃	S	8-Methylguanine
amino acid	H	CH ₃	S	6-Methylcytosine
amino acid	Н	CH ₃	S	8-Methyladenine
amino acid	Н	CH ₃	S	8-Methylhypoxanthine
amino acid	Н	CH ₃	S	5-Fluoro-6-methylcytosine
amino acid	H	CH ₃	S	5-Fluoro-6-methyluracil
amino acid	H	CH ₃	S.	2-Fluoro-8-methyladenine
amino acid	H	CH ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	Н	CH ₃	S	2-amino-8-methyladenine
amino acid	Н	CH ₃	S	2-amino-8-methylhypoxanthine
amino acid	H	CH ₃	S	2-N-acetyl-8-methylguanine
amino acid	Н	CH ₃	S	4-N-acetyl-8-methylcytosine
amino acid	H	CH ₃	S	6-N-acetyl-8-methyladenine
amino acid	H	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	H	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	H	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	H	CH ₃	S	2-N-acetylamino-8-methyladenine
amino acid	H	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	acyl	CH ₃	S	6-Methylthymine
amino acid	acyl	CH ₃	S	6-Methyluracil
amino acid	acyl	CH ₃	S	8-Methylguanine
amino acid	acyl	CH ₃	S	6-Methylcytosine
amino acid	acyl	CH ₃	S	8-Methyladenine
amino acid	acyl	CH ₃	S	8-Methylhypoxanthine
amino acid	acyl	CH ₃	S	5-Fluoro-6-methylcytosine
amino acid	acyl	CH ₃	S	5-Fluoro-6-methyluracil

R ²	R ³	R ⁶	X	Base
amino acid	acyl	CH₃	S	2-Fluoro-8-methyladenine
amino acid	acyl	CH ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	acyl	CH ₃	S	2-amino-8-methyladenine
amino acid	acyl	CH ₃	S	2-amino-8-methylhypoxanthine
amino acid	acyl	CH ₃	S	2-N-acetyl-8-methylguanine
amino acid	acyl	CH ₃	S	4-N-acetyl-8-methylcytosine
amino acid	acyl	CH ₃	S	6-N-acetyl-8-methyladenine
amino acid	acyl	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	acyl	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	acyl	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	acyl	CH ₃	S	2-N-acetylamino-8-methyladenine
amino acid	acyl	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	Н	CF ₃	S	6-Methylthymine
acyl	Н	CF ₃	S	6-Methyluracil
acyl	Н	CF ₃	S	8-Methylguanine
acyl	Н	CF ₃	S	6-Methylcytosine
acyl	Н	CF ₃	S	8-Methyladenine
acyl	Н	CF ₃	S	8-Methylhypoxanthine
acyl	Н	CF ₃	S	5-Fluoro-6-methylcytosine
acyl	Н	CF ₃	S	5-Fluoro-6-methyluracil
acyl	Н	CF ₃	S	2-Fluoro-8-methyladenine
acyl	H	CF ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	Н	CF ₃	S	2-amino-8-methyladenine
acyl	H	CF ₃	$\frac{1}{S}$	2-amino-8-methylhypoxanthine
acyl	Н	CF ₃	S	2-N-acetyl-8-methylguanine
acyl	Н	CF ₃	S	4-N-acetyl-8-methylcytosine
acyl	Н	CF ₃	S	6-N-acetyl-8-methyladenine
acyl	Н	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	H	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	Н	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	Н	CF ₃	S	2-N-acetylamino-8-methyladenine
acyl	H	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	acyl	CF ₃	S	6-Methylthymine
acyl	acyl	CF ₃	S	6-Methyluracil
acyl	acyl	CF ₃	S	8-Methylguanine
acyl	acyl	CF ₃	S	6-Methylcytosine
acyl	acyl	CF ₃	S	8-Methyladenine
acyl	acyl	CF ₃	S	8-Methylhypoxanthine
acyl	acyl	CF ₃	S	5-Fluoro-6-methylcytosine
acyl	acyl	CF ₃	S	5-Fluoro-6-methyluracil
acyl	acyl	CF ₃	S	2-Fluoro-8-methyladenine
acyl	acyl	CF ₃	S	2-Fluoro-8-methyladennie 2-Fluoro-8-methylhypoxanthine
acyl	acyl	CF ₃	$\frac{1}{S}$	2-amino-8-methyladenine
		CF ₃	S	
acyl	acyl		S	2-amino-8-methylhypoxanthine
acyl	acyl	CF ₃		2-N-acetyl-8-methylguanine
acyl	acyl	CF ₃	S	4-N-acetyl-8-methylcytosine
acyl	acyl	CF ₃	S	6-N-acetyl-8-methyladenine

\mathbb{R}^2	\mathbb{R}^3	R ⁶	X	Base
acyl	acyl	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	acyl	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	acyl	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	acyl	CF ₃	S	2-N-acetylamino-8-methyladenine
acyl	acyl	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	amino acid	CF ₃	S	6-Methylthymine
acyl	amino acid	CF ₃	S	6-Methyluracil
acyl	amino acid	CF ₃	S	8-Methylguanine
acyl	amino acid	CF ₃	S	6-Methylcytosine
acyl	amino acid	CF ₃	S	8-Methyladenine
acyl	amino acid	CF ₃	S	8-Methylhypoxanthine
acyl	amino acid	CF ₃	S	5-Fluoro-6-methylcytosine
acyl	amino acid	CF ₃	S	5-Fluoro-6-methyluracil
acyl	amino acid	CF ₃	S	2-Fluoro-8-methyladenine
acyl	amino acid	CF ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	amino acid	CF ₃	S	2-amino-8-methyladenine
acyl	amino acid	CF ₃	S	2-amino-8-methylhypoxanthine
acyl	amino acid	CF ₃	S	2-N-acetyl-8-methylguanine
acyl	amino acid	CF ₃	S	4-N-acetyl-8-methylcytosine
acyl	amino acid	CF ₃	S	6-N-acetyl-8-methyladenine
acyl	amino acid	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	amino acid	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	amino acid	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	amino acid	CF ₃	S	2-N-acetylamino-8-methyladenine
acyl	amino acid	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
H	acyl	CF ₃	S	6-Methylthymine
H	acyl	CF ₃	S	6-Methyluracil
H	acyl	CF ₃	S	8-Methylguanine
Н	acyl	CF ₃	S	6-Methylcytosine
H	acyl	CF ₃	S	8-Methyladenine
H	acyl	CF ₃	S	8-Methylhypoxanthine
H	acyl	CF ₃	S	5-Fluoro-6-methylcytosine
<u>H</u>	acyl	CF ₃	S	5-Fluoro-6-methyluracil
H	acyl	CF ₃	S	2-Fluoro-8-methyladenine
H	acyl	CF ₃	S	2-Fluoro-8-methylhypoxanthine
H	acyl	CF ₃	S	2-amino-8-methyladenine
H	acyl	CF ₃	S	2-amino-8-methylhypoxanthine
H	acyl	CF ₃	S	2-N-acetyl-8-methylguanine
H	acyl	CF ₃	S	4-N-acetyl-8-methylcytosine
<u>H</u>	acyl	CF ₃	S	6-N-acetyl-8-methyladenine
H	acyl	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
H	acyl	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
H	acyl	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
H	acyl	CF ₃	S	2-N-acetylamino-8-methyladenine
Н	acyl	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
H	amino acid	CF ₃	S	6-Methylthymine
Н	amino acid	CF ₃	S	6-Methyluracil

\mathbb{R}^2	R ³	R ⁶	X	Base
Н	amino acid	CF ₃	S	8-Methylguanine
Н	amino acid	CF ₃	S	6-Methylcytosine
H	amino acid	CF ₃	S	8-Methyladenine
H	amino acid	CF ₃	S	8-Methylhypoxanthine
Н	amino acid	CF ₃	S	5-Fluoro-6-methylcytosine
H	amino acid	CF ₃	S	5-Fluoro-6-methyluracil
H	amino acid	CF ₃	S	2-Fluoro-8-methyladenine
H	amino acid	CF ₃	S	2-Fluoro-8-methylhypoxanthine
Н	amino acid	CF ₃	S	2-amino-8-methyladenine
Н	amino acid	CF ₃	S	2-amino-8-methylhypoxanthine
H	amino acid	CF ₃	S	2-N-acetyl-8-methylguanine
H	amino acid	CF ₃	S	4-N-acetyl-8-methylcytosine
Н	amino acid	CF ₃	S	6-N-acetyl-8-methyladenine
H	amino acid	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
H	amino acid	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
H	amino acid	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
Н	amino acid	CF ₃	S	2-N-acetylamino-8-methyladenine
Н	amino acid	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	amino acid	CF ₃	S	6-Methylthymine
amino acid	amino acid	CF ₃	S	6-Methyluracil
amino acid	amino acid	CF ₃	S	8-Methylguanine
amino acid	amino acid	CF ₃	S	6-Methylcytosine
amino acid	amino acid	CF ₃	S	8-Methyladenine
amino acid	amino acid	CF ₃	S	8-Methylhypoxanthine
amino acid	amino acid	CF ₃	S	5-Fluoro-6-methylcytosine
amino acid	amino acid	CF ₃	S	5-Fluoro-6-methyluracil
amino acid	amino acid	CF ₃	S	2-Fluoro-8-methyladenine
amino acid	amino acid	CF ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	amino acid	CF ₃	S	2-amino-8-methyladenine
amino acid	amino acid	CF ₃	S	2-amino-8-methylhypoxanthine
amino acid	amino acid	CF ₃	S	2-N-acetyl-8-methylguanine
amino acid	amino acid	CF ₃	S	4-N-acetyl-8-methylcytosine
amino acid	amino acid	CF ₃	S	6-N-acetyl-8-methyladenine
amino acid	amino acid	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	amino acid	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	amino acid	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	amino acid	CF ₃	S	2-N-acetylamino-8-methyladenine
amino acid	amino acid	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	H	CF ₃	S	6-Methylthymine
amino acid	Н	CF ₃	S	6-Methyluracil
amino acid	Н	CF ₃	S	8-Methylguanine
amino acid	Н	CF ₃	S	6-Methylcytosine
amino acid	Н	CF ₃	S	8-Methyladenine
amino acid	H	CF ₃	$\frac{1}{S}$	8-Methylhypoxanthine
amino acid	H	CF ₃	S	5-Fluoro-6-methylcytosine
amino acid	H	CF ₃	$\frac{1}{S}$	5-Fluoro-6-methyluracil
amino acid	H	CF ₃	S	2-Fluoro-8-methyladenine
Lamino acid	1 **	U1 3	13	2-1 Iuoro-o-memyrademile

R ²	R ³	R ⁶	X	Base
amino acid	H	CF ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	Н	CF ₃	S	2-amino-8-methyladenine
amino acid	Н	CF ₃	S	2-amino-8-methylhypoxanthine
amino acid	Н	CF ₃	S	2-N-acetyl-8-methylguanine
amino acid	Н	CF ₃	S	4-N-acetyl-8-methylcytosine
amino acid	H	CF ₃	S	6-N-acetyl-8-methyladenine
amino acid	Н	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	H	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	Н	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	H	CF ₃	S	2-N-acetylamino-8-methyladenine
amino acid	Н	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	acyl	CF ₃	S	6-Methylthymine
amino acid	acyl	CF ₃	S	6-Methyluracil
amino acid	acyl	CF ₃	S	8-Methylguanine
amino acid	acyl	CF ₃	S	6-Methylcytosine
amino acid	acyl	CF ₃	S	8-Methyladenine
amino acid	acyl	CF ₃	S	8-Methylhypoxanthine
amino acid	acyl	CF ₃	S	5-Fluoro-6-methylcytosine
amino acid	acyl	CF ₃	S	5-Fluoro-6-methyluracil
amino acid	acyl	CF ₃	S	2-Fluoro-8-methyladenine
amino acid	acyl	CF ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	acyl	CF ₃	S	2-amino-8-methyladenine
amino acid	acyl	CF ₃	S	2-amino-8-methylhypoxanthine
amino acid	acyl	CF ₃	S	2-N-acetyl-8-methylguanine
amino acid	acyl	CF ₃	S	4-N-acetyl-8-methylcytosine
amino acid	acyl	CF ₃	S	6-N-acetyl-8-methyladenine
amino acid	acyl	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	acyl	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	acyl	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	acyl	CF ₃	S	2-N-acetylamino-8-methyladenine
amino acid	acyl	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine

Table 4

\mathbb{R}^2	R ⁶	X	Base
acyl	CH ₃	0	6-Methylthymine
acyl	CH ₃	0	6-Methyluracil
acyl	CH ₃	0	8-Methylguanine
acyl	CH ₃	0	6-Methylcytosine
acyl	CH ₃	O	8-Methyladenine
acyl	CH ₃	0	8-Methylhypoxanthine
acyl	CH ₃	0	5-Fluoro-6-methylcytosine
acyl	CH ₃	0	5-Fluoro-6-methyluracil
acyl	CH ₃	0	2-Fluoro-8-methyladenine
acyl	CH ₃	0	2-Fluoro-8-methylhypoxanthine
acyl	CH ₃	0	2-amino-8-methyladenine
acyl	CH ₃	0	2-amino-8-methylhypoxanthine
acyl	CH ₃	О	2-N-acetyl-8-methylguanine
acyl	CH ₃	0	4-N-acetyl-8-methylcytosine
acyl	CH ₃	О	6-N-acetyl-8-methyladenine
acyl	CH ₃	0	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CH ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
acyl	CH ₃	О	6-N-acetyl-2-amino-8-methyladenine
acyl	CH ₃	O	2-N-acetylamino-8-methyladenine
acyl	CH ₃	О	2-N-acetylamino-8-methylhypoxanthine
amino acid	CH ₃	О	6-Methylthymine
amino acid	CH ₃	О	6-Methyluracil
amino acid	CH ₃	О	8-Methylguanine
amino acid	CH ₃	О	6-Methylcytosine
amino acid	CH ₃	0	8-Methyladenine
amino acid	CH ₃	0	8-Methylhypoxanthine
amino acid	CH ₃	О	5-Fluoro-6-methylcytosine
amino acid	CH ₃	0	5-Fluoro-6-methyluracil
amino acid	CH ₃	О	2-Fluoro-8-methyladenine
amino acid	CH ₃	О	2-Fluoro-8-methylhypoxanthine
amino acid	CH ₃	0	2-amino-8-methyladenine
amino acid	CH ₃	. 0	2-amino-8-methylhypoxanthine
amino acid	CH ₃	0	2-N-acetyl-8-methylguanine
amino acid	CH ₃	O	4-N-acetyl-8-methylcytosine
amino acid	CH ₃	0	6-N-acetyl-8-methyladenine
amino acid	CH ₃	О	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	CH ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	CH ₃	0	6-N-acetyl-2-amino-8-methyladenine
amino acid	CH ₃	0	2-N-acetylamino-8-methyladenine
amino acid	CH ₃	$+\ddot{o}$	2-N-acetylamino-8-methylhypoxanthine
acyl	CF ₃	$\frac{0}{0}$	6-Methylthymine
acyl	CF ₃	$\frac{0}{0}$	6-Methyluracil
acyl	$\frac{\text{CF}_3}{\text{CF}_3}$	$\frac{1}{0}$	8-Methylguanine
acyl	CF ₃	$\frac{0}{0}$	6-Methylcytosine
acyl	$\frac{\text{CF}_3}{\text{CF}_3}$	0	8-Methyladenine
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R ²	R ⁶	X	Base
acyl	CF ₃	0	8-Methylhypoxanthine
acyl	CF ₃	0	5-Fluoro-6-methylcytosine
acyl	CF ₃	0	5-Fluoro-6-methyluracil
acyl	CF ₃	O.	2-Fluoro-8-methyladenine
acyl	CF ₃	0	2-Fluoro-8-methylhypoxanthine
acyl	CF ₃	0	2-amino-8-methyladenine
acyl	CF ₃	0	2-amino-8-methylhypoxanthine
acyl	CF ₃	0	2-N-acetyl-8-methylguanine
acyl	CF ₃	0	4-N-acetyl-8-methylcytosine
acyl	CF ₃	0	6-N-acetyl-8-methyladenine
acyl	CF ₃	О	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CF ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
acyl	CF ₃	О	6-N-acetyl-2-amino-8-methyladenine
acyl	CF ₃	О	2-N-acetylamino-8-methyladenine
acyl	CF ₃	0	2-N-acetylamino-8-methylhypoxanthine
amino acid	CF ₃	0	6-Methylthymine
amino acid	CF ₃	0	6-Methyluracil
amino acid	CF ₃	0	8-Methylguanine
amino acid	CF ₃	О	6-Methylcytosine
amino acid	CF ₃	0	8-Methyladenine
amino acid	CF ₃	О	8-Methylhypoxanthine
amino acid	CF ₃	O	5-Fluoro-6-methylcytosine
amino acid	CF ₃	О	5-Fluoro-6-methyluracil
amino acid	CF ₃	О	2-Fluoro-8-methyladenine
amino acid	CF ₃	. 0	2-Fluoro-8-methylhypoxanthine
amino acid	CF ₃	O	2-amino-8-methyladenine
amino acid	CF ₃	О	2-amino-8-methylhypoxanthine
amino acid	CF ₃	О	2-N-acetyl-8-methylguanine
amino acid	CF ₃	О	4-N-acetyl-8-methylcytosine
amino acid	CF ₃	О	6-N-acetyl-8-methyladenine
amino acid	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	CF ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	CF ₃	0	6-N-acetyl-2-amino-8-methyladenine
amino acid	CF ₃	O	2-N-acetylamino-8-methyladenine
amino acid	CF ₃	0	2-N-acetylamino-8-methylhypoxanthine
acyl	CH ₃	S	6-Methylthymine
acyl	CH ₃	S	6-Methyluracil
acyl	CH ₃	S	8-Methylguanine
acyl	CH ₃	S	6-Methylcytosine
acyl	CH ₃	S	8-Methyladenine
acyl	CH ₃	S	8-Methylhypoxanthine
acyl	CH ₃	S	5-Fluoro-6-methylcytosine
acyl	CH ₃	S	5-Fluoro-6-methyluracil
acyl	CH ₃	S	2-Fluoro-8-methyladenine
acyl	CH ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	CH ₃	S	2-amino-8-methyladenine

R ²	R ⁶	X	Base
acyl	CH ₃	S	2-amino-8-methylhypoxanthine
acyl	CH ₃	S	2-N-acetyl-8-methylguanine
acyl	CH ₃	S	4-N-acetyl-8-methylcytosine
acyl	CH ₃	S	6-N-acetyl-8-methyladenine
acyl	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	CH ₃	S	2-N-acetylamino-8-methyladenine
acyl	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	CH ₃	S	6-Methylthymine
amino acid	CH ₃	S	6-Methyluracil
amino acid	CH ₃	S	8-Methylguanine
amino acid	CH ₃	S	6-Methylcytosine
amino acid	CH ₃	S	8-Methyladenine
amino acid	CH ₃	S	8-Methylhypoxanthine
amino acid	CH ₃	S	5-Fluoro-6-methylcytosine
amino acid	CH ₃	S	5-Fluoro-6-methyluracil
amino acid	CH ₃	S	2-Fluoro-8-methyladenine
amino acid	CH ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	CH ₃	S	2-amino-8-methyladenine
amino acid	CH ₃	S	2-amino-8-methylhypoxanthine
amino acid	CH ₃	S	2-N-acetyl-8-methylguanine
amino acid	CH ₃	S	4-N-acetyl-8-methylcytosine
amino acid	CH ₃	S	6-N-acetyl-8-methyladenine
amino acid	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	CH ₃	S	2-N-acetylamino-8-methyladenine
amino acid	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	CF ₃	S	6-Methylthymine
acyl	CF ₃	S	6-Methyluracil
acyl	CF ₃	S	8-Methylguanine
acyl	CF ₃	S	6-Methylcytosine
acyl	CF ₃	S	8-Methyladenine
acyl	CF ₃	S	8-Methylhypoxanthine
acyl	CF ₃	S	5-Fluoro-6-methylcytosine
acyl	CF ₃	S	5-Fluoro-6-methyluracil
acyl	CF ₃	S	2-Fluoro-8-methyladenine
acyl	CF ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	CF ₃	S	2-amino-8-methyladenine
acyl	CF ₃	S	2-amino-8-methylhypoxanthine
acyl	CF ₃	- S	2-N-acetyl-8-methylguanine
acyl	CF ₃	S	4-N-acetyl-8-methylcytosine
acyl	CF ₃	S	6-N-acetyl-8-methyladenine
acyl	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyı	Cr3		0-11-accty1-2-11uoro-8-metnyladenine

R ²	R ⁶	X	Base
acyl	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	CF ₃	S	2-N-acetylamino-8-methyladenine
acyl	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	CF ₃	S	6-Methylthymine
amino acid	CF ₃	S	6-Methyluracil
amino acid	CF ₃	S	8-Methylguanine
amino acid	CF ₃	S	6-Methylcytosine
amino acid	CF ₃	S	8-Methyladenine
amino acid	CF ₃	S	8-Methylhypoxanthine
amino acid	CF ₃	S	5-Fluoro-6-methylcytosine
amino acid	CF ₃	S	5-Fluoro-6-methyluracil
amino acid	CF ₃	S	2-Fluoro-8-methyladenine
amino acid	CF ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	CF ₃	S	2-amino-8-methyladenine
amino acid	CF ₃	S	2-amino-8-methylhypoxanthine
amino acid	CF ₃	S	2-N-acetyl-8-methylguanine
amino acid	CF ₃	S	4-N-acetyl-8-methylcytosine
amino acid	CF ₃	S	6-N-acetyl-8-methyladenine
amino acid	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	CF ₃	S	2-N-acetylamino-8-methyladenine
amino acid	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine

Table 5

\mathbb{R}^2	R ⁶	X	Base
acyl	CH ₃	О	6-Methylthymine
acyl	CH ₃	О	6-Methyluracil
acyl	CH ₃	0	8-Methylguanine
acyl	CH ₃	О	6-Methylcytosine
acyl	CH ₃	0	8-Methyladenine
acyl	CH ₃	О	8-Methylhypoxanthine
acyl	CH ₃	0	5-Fluoro-6-methylcytosine
acyl	CH ₃	О	5-Fluoro-6-methyluracil
acyl	CH ₃	0	2-Fluoro-8-methyladenine
acyl	CH ₃	0	2-Fluoro-8-methylhypoxanthine
acyl	CH ₃	O	2-amino-8-methyladenine
acyl	CH ₃	О	2-amino-8-methylhypoxanthine
acyl	CH ₃	0	2-N-acetyl-8-methylguanine
acyl	CH ₃	0	4-N-acetyl-8-methylcytosine
acyl	CH ₃	0	6-N-acetyl-8-methyladenine
acyl	CH ₃	О	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CH ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
acyl	CH ₃	0	6-N-acetyl-2-amino-8-methyladenine
acyl	CH ₃	О	2-N-acetylamino-8-methyladenine
acyl	CH ₃	0	2-N-acetylamino-8-methylhypoxanthine
amino acid	CH ₃	0	6-Methylthymine
amino acid	CH ₃	0	6-Methyluracil
amino acid	CH ₃	О	8-Methylguanine
amino acid	CH ₃	0.	6-Methylcytosine
amino acid	CH ₃	0	8-Methyladenine
amino acid	CH ₃	0	8-Methylhypoxanthine
amino acid	CH ₃	O	5-Fluoro-6-methylcytosine
amino acid	CH ₃	0	5-Fluoro-6-methyluracil
amino acid	CH ₃	0	2-Fluoro-8-methyladenine
amino acid	CH ₃	0	2-Fluoro-8-methylhypoxanthine
amino acid	CH ₃	0	2-amino-8-methyladenine
amino acid	CH ₃	0	2-amino-8-methylhypoxanthine
amino acid	CH ₃	0	2-N-acetyl-8-methylguanine
amino acid	CH ₃	0	4-N-acetyl-8-methylcytosine
amino acid	CH ₃	0	6-N-acetyl-8-methyladenine
amino acid	CH ₃	0	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	CH ₃	0	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	CH ₃	0	6-N-acetyl-2-amino-8-methyladenine
amino acid	CH ₃	0	2-N-acetylamino-8-methyladenine
amino acid	CH ₃	0	2-N-acetylamino-8-methylhypoxanthine
acyl	CF ₃	0	6-Methylthymine
acyl	CF ₃	o	6-Methyluracil
acyl	CF ₃	0	8-Methylguanine
acyl	CF ₃	0	6-Methylcytosine
acyl	CF ₃	0	8-Methyladenine

\mathbb{R}^2	\mathbb{R}^6	X	Base
acyl	CF ₃	O	8-Methylhypoxanthine
acyl	CF ₃	0	5-Fluoro-6-methylcytosine
acyl	CF ₃	0	5-Fluoro-6-methyluracil
acyl	CF ₃	0	2-Fluoro-8-methyladenine
acyl	CF ₃	0	2-Fluoro-8-methylhypoxanthine
acyl	CF ₃	0	2-amino-8-methyladenine
acyl	CF ₃	O	2-amino-8-methylhypoxanthine
acyl	CF ₃	0	2-N-acetyl-8-methylguanine
acyl	CF ₃	0	4-N-acetyl-8-methylcytosine
acyl	CF ₃	O	6-N-acetyl-8-methyladenine
acyl	CF ₃	O	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CF ₃	O	6-N-acetyl-2-fluoro-8-methyladenine
acyl	CF ₃	0	6-N-acetyl-2-amino-8-methyladenine
acyl	CF ₃	О	2-N-acetylamino-8-methyladenine
acyl	CF ₃	О	2-N-acetylamino-8-methylhypoxanthine
amino acid	CF ₃	O	6-Methylthymine
amino acid	CF ₃	0	6-Methyluracil
amino acid	CF ₃	0	8-Methylguanine
amino acid	CF ₃	O	6-Methylcytosine
amino acid	CF ₃	o	8-Methyladenine
amino acid	CF ₃	O	8-Methylhypoxanthine
amino acid	CF ₃	O	5-Fluoro-6-methylcytosine
amino acid	CF ₃	Ō	5-Fluoro-6-methyluracil
amino acid	CF ₃	0	2-Fluoro-8-methyladenine
amino acid	CF ₃	ō	2-Fluoro-8-methylhypoxanthine
amino acid	CF ₃	Ō	2-amino-8-methyladenine
amino acid	CF ₃	O	2-amino-8-methylhypoxanthine
amino acid	CF ₃	O	2-N-acetyl-8-methylguanine
amino acid	CF ₃	O	4-N-acetyl-8-methylcytosine
amino acid	CF ₃	O	6-N-acetyl-8-methyladenine
amino acid	CF ₃	ō	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	CF ₃	o	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	CF ₃	O	6-N-acetyl-2-amino-8-methyladenine
amino acid	CF ₃	ō	2-N-acetylamino-8-methyladenine
amino acid	CF ₃	ō	2-N-acetylamino-8-methylhypoxanthine
acyl	2-Bromo-vinyl	S	6-Methylthymine
acyl	2-Bromo-vinyl	S	6-Methyluracil
acyl	2-Bromo-vinyl	S	8-Methylguanine
acyl	2-Bromo-vinyl	S	6-Methylcytosine
acyl	2-Bromo-vinyl	S	8-Methyladenine
acyl	2-Bromo-vinyl	S	8-Methylhypoxanthine
acyl	2-Bromo-vinyl	S	5-Fluoro-6-methylcytosine
acyl	2-Bromo-vinyl	S	5-Fluoro-6-methyluracil
acyl	2-Bromo-vinyl	S	2-Fluoro-8-methyladenine
acyl	2-Bromo-vinyl	S	2-Fluoro-8-methylhypoxanthine
acyl	2-Bromo-vinyl	S	2-amino-8-methyladenine
acyı	2-Diomo-vinyl	٦٥	2-animo-o-metrylauchine

\mathbb{R}^2	R ⁶	X	Base
acyl	2-Bromo-vinyl	S	2-amino-8-methylhypoxanthine
acyl	2-Bromo-vinyl	S	2-N-acetyl-8-methylguanine
acyl	2-Bromo-vinyl	S	4-N-acetyl-8-methylcytosine
acyl	2-Bromo-vinyl	S	6-N-acetyl-8-methyladenine
acyl	2-Bromo-vinyl	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	2-Bromo-vinyl	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	2-Bromo-vinyl	S	6-N-acetyl-2-amino-8-methyladenine
acyl	2-Bromo-vinyl	S	2-N-acetylamino-8-methyladenine
acyl	2-Bromo-vinyl	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	2-Bromo-vinyl	S	6-Methylthymine
amino acid	2-Bromo-vinyl	S	6-Methyluracil
amino acid	2-Bromo-vinyl	S	8-Methylguanine
amino acid	2-Bromo-vinyl	S	6-Methylcytosine
amino acid	2-Bromo-vinyl	S	8-Methyladenine
amino acid	2-Bromo-vinyl	S	8-Methylhypoxanthine
amino acid	2-Bromo-vinyl	S	5-Fluoro-6-methylcytosine
amino acid	2-Bromo-vinyl	S	5-Fluoro-6-methyluracil
amino acid	2-Bromo-vinyl	S	2-Fluoro-8-methyladenine
amino acid	2-Bromo-vinyl	S	2-Fluoro-8-methylhypoxanthine
amino acid	2-Bromo-vinyl	S	2-amino-8-methyladenine
amino acid	2-Bromo-vinyl	S	2-amino-8-methylhypoxanthine
amino acid	2-Bromo-vinyl	S	2-N-acetyl-8-methylguanine
amino acid	2-Bromo-vinyl	S	4-N-acetyl-8-methylcytosine
amino acid	2-Bromo-vinyl	S	6-N-acetyl-8-methyladenine
amino acid	2-Bromo-vinyl	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	2-Bromo-vinyl	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	2-Bromo-vinyl	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	2-Bromo-vinyl	S	2-N-acetylamino-8-methyladenine
amino acid	2-Bromo-vinyl	S	2-N-acetylamino-8-methylhypoxanthine
acyl	CH ₃	S	6-Methylthymine
acyl	CH ₃	S	6-Methyluracil
acyl	CH ₃	S	8-Methylguanine
acyl	CH ₃	S	6-Methylcytosine
acyl	CH ₃	S	8-Methyladenine
acyl	CH ₃	S	8-Methylhypoxanthine
acyl	CH ₃	S	5-Fluoro-6-methylcytosine
acyl	CH ₃	S	5-Fluoro-6-methyluracil
acyl	CH ₃	S	2-Fluoro-8-methyladenine
acyl	CH ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	CH ₃	S	2-amino-8-methyladenine
acyl	CH ₃	S	2-amino-8-methylhypoxanthine
acyl	CH ₃	S	2-N-acetyl-8-methylguanine
acyl	CH ₃	S	4-N-acetyl-8-methylcytosine
acyl	CH ₃	S	6-N-acetyl-8-methyladenine
acyl	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine

\mathbb{R}^2	R ⁶	X	Base
acyl	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	CH ₃	S	2-N-acetylamino-8-methyladenine
acyl	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	CH ₃	S	6-Methylthymine
amino acid	CH ₃	S	6-Methyluracil
amino acid	CH ₃	S	8-Methylguanine
amino acid	CH ₃	S	6-Methylcytosine
amino acid	CH ₃	S	8-Methyladenine
amino acid	CH ₃	S	8-Methylhypoxanthine
amino acid	CH ₃	S	5-Fluoro-6-methylcytosine
amino acid	CH ₃	S	5-Fluoro-6-methyluracil
amino acid	CH ₃	S	2-Fluoro-8-methyladenine
amino acid	CH ₃	S	2-Fluoro-8-methylhypoxanthine
amino acid	CH ₃	S	2-amino-8-methyladenine
amino acid	CH ₃	S	2-amino-8-methylhypoxanthine
amino acid	CH ₃	S	2-N-acetyl-8-methylguanine
amino acid	CH ₃	S	4-N-acetyl-8-methylcytosine
amino acid	CH ₃	S	6-N-acetyl-8-methyladenine
amino acid	CH ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
amino acid	CH ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
amino acid	CH ₃	S	6-N-acetyl-2-amino-8-methyladenine
amino acid	CH ₃	S	2-N-acetylamino-8-methyladenine
amino acid	CH ₃	S	2-N-acetylamino-8-methylhypoxanthine
acyl	CF ₃	S	6-Methylthymine
acyl	CF ₃	S	6-Methyluracil
acyl	CF ₃	S	8-Methylguanine
acyl	CF ₃	S	6-Methylcytosine
acyl	CF ₃	S	8-Methyladenine
acyl	CF ₃	S	8-Methylhypoxanthine
acyl	CF ₃	S	5-Fluoro-6-methylcytosine
acyl	CF ₃	S	5-Fluoro-6-methyluracil
acyl	CF ₃	S	2-Fluoro-8-methyladenine
acyl	CF ₃	S	2-Fluoro-8-methylhypoxanthine
acyl	CF ₃	S	2-amino-8-methyladenine
acyl	CF ₃	S	2-amino-8-methylhypoxanthine
acyl	CF ₃	S	2-N-acetyl-8-methylguanine
acyl	CF ₃	S	4-N-acetyl-8-methylcytosine
acyl	CF ₃	S	6-N-acetyl-8-methyladenine
acyl	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine
acyl	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine
acyl	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine
acyl	CF ₃	S	2-N-acetylamino-8-methyladenine
acyl	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine
amino acid	CF ₃	S	6-Methylthymine
amino acid	CF ₃	S	6-Methyluracil
amino acid	CF ₃	S	8-Methylguanine

R ²	R ⁶	X	Base		
amino acid	CF ₃	S	6-Methylcytosine		
amino acid	CF ₃	S	8-Methyladenine		
amino acid	CF ₃	S	8-Methylhypoxanthine		
amino acid	CF ₃	S	5-Fluoro-6-methylcytosine		
amino acid	CF ₃	S	5-Fluoro-6-methyluracil		
amino acid	CF ₃	S	2-Fluoro-8-methyladenine		
amino acid	CF ₃	S	2-Fluoro-8-methylhypoxanthine		
amino acid	CF ₃	S	2-amino-8-methyladenine		
amino acid	CF ₃	S	2-amino-8-methylhypoxanthine		
amino acid	CF ₃	S	2-N-acetyl-8-methylguanine		
amino acid	CF ₃	S	4-N-acetyl-8-methylcytosine		
amino acid	CF ₃	S	6-N-acetyl-8-methyladenine		
amino acid	CF ₃	S	4-N-acetyl-5-fluoro-8-methylcytosine		
amino acid	CF ₃	S	6-N-acetyl-2-fluoro-8-methyladenine		
amino acid	CF ₃	S	6-N-acetyl-2-amino-8-methyladenine		
amino acid	CF ₃	S	2-N-acetylamino-8-methyladenine		
amino acid	CF ₃	S	2-N-acetylamino-8-methylhypoxanthine		

Table 6

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	F	O	6-Methylthymine	F	H
CH ₃	O-acyl	F	О	6-Methyluracil	F	H
CH ₃	O-acyl	F	О	8-Methylguanine	F	Н
CH ₃	O-acyl	F	0	6-Methylcytosine	F	Н
CH ₃	O-acyl	F	0	8-Methyladenine	F	Н
CH ₃	O-acyl	F	Q	8-Methylhypoxanthine	F	Н
CH ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	F	H
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	H
CH_3	O-acyl	F	0	2-Amino-8-methyladenine	F	H
CH ₃	O-acyl	F	0	2-Amino-8-methylhypoxanthine	F	H
CH_3	O-acyl	F	0	2-N-acetyl-8-methylguanine	F	H
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	F_	H
CH_3	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	H
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	H
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	F	<u>H</u>
CH ₃	O-acyl	F	O	2-N-acetylamino-8-	} F	H
ļ			l	methylhypoxanthine	1	
CH ₃	O-acyl	F	О	6-Methylthymine	F	O-amino acid
CH ₃	O-acyl	F	0	6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	F	O	8-Methylguanine	F	O-amino acid
CH ₃	O-acyl	F	O	6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	F	0	8-Methyladenine	F	O-amino acid
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	F	.0	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	F	0	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	F	0	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	F		2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-acyl	F	0	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	F	0	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	F	О	2-N-acetylamino-8-	F	O-amino acid
		-		methylhypoxanthine	ļ	
CH ₃	O-acyl	F	0	6-Methylthymine	F	O-acyl
CH ₃	O-acyl	F	0	6-Methyluracil	F	O-acyl
CH ₃	O-acyl	F	0	8-Methylguanine	F	O-acyl

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	F	0	6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	F	0	8-Methyladenine	F	O-acyl
CH ₃	O-acyl	F	0	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-acyl	F	О	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-acyl	F	О	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	F	О	2-N-acetylamino-8-	F	O-acyl
				methylhypoxanthine	ļ	
CH ₃	O-acyl	F	O	6-Methylthymine	F	OH
CH ₃	O-acyl	F_	0	6-Methyluracil	F	ОН
CH ₃	O-acyl	F	O	8-Methylguanine	F	ОН
CH ₃	O-acyl	F	O	6-Methylcytosine	F	ОН
CH ₃	O-acyl	F	0	8-Methyladenine	F	OH
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	F	ОН
CH ₃	O-acyl	F	0	5-Fluoro-6-Methyluracil	F	ОН
CH ₃	O-acyl	F	0	5-Fluoro-6-Methylcytosine	F_	OH
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	ОН
CH ₃	O-acyl	F	0	2-Fluoro-8-methylhypoxanthine	F	ОН
CH ₃	O-acyl	F	0	2-Amino-8-methyladenine	F	OH
CH ₃	O-acyl	F	0	2-Amino-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	ОН
CH ₃	O-acyl	F	0	4-N-acetyl-8-methylcytosine	F	ОН
CH ₃		F	O	6-N-acetyl-8-methyladenine	F	ОН
CH ₃		F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	ОН
CH ₃	O-acyl	F	0	6-N-acetyl-2-fluoro-8-methyladenine	F	ОН
CH ₃		F	0	6-N-acetyl-2-amino-8-methyladenine	F	ОН
CH ₃		F	0	2-N-acetylamino-8-methyladenine	F	ОН
CH ₃	O-acyl	F	0	2-N-acetylamino-8-	F	ОН
	<u></u>	 	1-	methylhypoxanthine		ļ
CH ₃	O-acyl	F	0	6-Methylthymine	Br	H
CH ₃	O-acyl	F	0	6-Methyluracil	Br	Н
CH ₃		F	0	8-Methylguanine	Br_	<u>H</u>
CH ₃		F	0	6-Methylcytosine	Br	Н
CH ₃		F	О	8-Methyladenine	Br	H
CH ₃		F	O	8-Methylhypoxanthine	Br	H
CH ₃		F	O	5-Fluoro-6-Methyluracil	Br	H
CH ₃	O-acyl	F	О	5-Fluoro-6-Methylcytosine	Br	H

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	Н
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br .	Н
CH ₃	O-acyl	F	0	2-Amino-8-methyladenine	Br	Н
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	Н
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	Н
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	Н
CH ₃	O-acyl	F	o	6-N-acetyl-8-methyladenine	Br	Н
CH ₃	O-acyl	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	Н
CH ₃	O-acyl	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	Н
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	Н
CH ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	Br	Н
CH ₃	O-acyl	F	0	2-N-acetylamino-8-	Br	Н
			_	methylhypoxanthine		_
CH ₃	O-acyl	F	o	6-Methylthymine	Br	O-amino acid
CH ₃	O-acyl	F	O	6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	F	O	8-Methylguanine	Br	O-amino acid
CH ₃	O-acyl	F	Ō	6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	F	0	8-Methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	F	0	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	ō	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	F	ō	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	o	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	F	ō	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-acyl	F	ŏ	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-acyl	F	o	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	Ō	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-acyl	F	ō	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	o	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	o	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	F	Ō	2-N-acetylamino-8-	Br	O-amino acid
			-	methylhypoxanthine		
CH ₃	O-acyl	F	O	6-Methylthymine	Br	O-acyl
CH ₃	O-acyl	F	O	6-Methyluracil	Br	O-acyl
CH ₃	O-acyl	F	O	8-Methylguanine	Br	O-acyl
CH ₃	O-acyl	F	Ō	6-Methylcytosine	Br	O-acyl
CH ₃	O-acyl	F	o	8-Methyladenine	Br	O-acyl
CH ₃	O-acyl	F	o	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	F	o	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-acyl	F	ō	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-acyl	F	o	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	F	ō	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	F	0	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	F	0	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	F	0	2-N-acetyl-8-methylguanine	Br	O-acyl
C113	L O-acyl			2 14-accey1-0-memyiguanine	1 171	1 O-acyi

R ⁶	\mathbb{R}^7	R ⁸	X	Base	\mathbf{R}^{10}	R ⁹
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	.Br	O-acyl
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	F	0	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	F	0	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	F	О	2-N-acetylamino-8-	Br	O-acyl
			<u></u>	methylhypoxanthine		
CH ₃	O-acyl	F	0	6-Methylthymine	Br	OH
CH ₃	O-acyl	F	О	6-Methyluracil	Br	ОН
CH ₃	O-acyl	F	О	8-Methylguanine	Br	ОН
CH ₃	O-acyl	F_	О	6-Methylcytosine	Br	ОН
CH ₃	O-acyl	F	O	8-Methyladenine	Br	OH
CH ₃	O-acyl	F	О	8-Methylhypoxanthine	Br	ОН
CH ₃	O-acyl	F	Ō	5-Fluoro-6-Methyluracil	Br_	ОН
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br_	OH _
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	ОН
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	ОН
CH ₃	O-acyl	F	0	2-Amino-8-methyladenine	Br	OH
CH ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	Br	OH
CH ₃	O-acyl	F	O.	2-N-acetyl-8-methylguanine	Br	ОН
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	OH
CH ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Br	OH
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	ОН
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CH ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	Br	OH
CH ₃	O-acyl	F	О	2-N-acetylamino-8-	Br	OH
<u> </u>				methylhypoxanthine	ļ	
CH ₃	O-acyl	F	0	6-Methylthymine	Cl	O-acyl
CH ₃	O-acyl	F	O	6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	F	О	8-Methylguanine	Cl_	O-acyl
CH ₃	O-acyl	F	0	6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	F	O	8-Methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	0	8-Methylhypoxanthine	Cl_	O-acyl
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	F	0	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl_	F	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	0	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	F	О	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-acyl	F	0	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	0	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	F	0	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	F	O	2-N-acetylamino-8-	Cl	O-acyl
				methylhypoxanthine	ļ	
CH ₃	O-acyl	F	O	6-Methylthymine	Cl	ОН
CH ₃	O-acyl	F	0	6-Methyluracil	Cl	OH
CH ₃	O-acyl	F	0	8-Methylguanine	Cl	ОН
CH ₃	O-acyl	F	0	6-Methylcytosine	CI	ОН
CH ₃	O-acyl	F	O	8-Methyladenine	Cl	ОН
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	ОН
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Cl	ОН
CH ₃	O-acyl_	F	0	5-Fluoro-6-Methylcytosine	Cl	OH
CH ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	Cl	ОН
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl_	ОН
CH ₃	O-acyl	F	0	2-Amino-8-methyladenine	Cl	OH
CH ₃	O-acyl	F	0	2-Amino-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	F_	O	2-N-acetyl-8-methylguanine	Cl	OH
CH ₃	O-acyl	F	0	4-N-acetyl-8-methylcytosine	Cl	OH
CH ₃	O-acyl_	F_	0	6-N-acetyl-8-methyladenine	Cl	OH
CH ₃	O-acyl	F_	0	4-N-acetyl-5-fluoro-8-methylcytosine	CI	ОН
CH ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	F_	О	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CH ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	Cl	OH
CH ₃	O-acyl	F	О	2-N-acetylamino-8-	Cl	OH
			<u> </u>	methylhypoxanthine		,
CH ₃	O-acyl	F	0	6-Methylthymine	Cl	H
CH ₃	O-acyl	F	O	6-Methyluracil	Cl	H
CH ₃	O-acyl	F	O	8-Methylguanine	Cl	H
CH ₃	O-acyl	F	0	6-Methylcytosine	Cl	H
CH ₃	O-acyl	F	О	8-Methyladenine	Cl	Н
CH ₃	O-acyl	F	0	8-Methylhypoxanthine	Cl	H
CH ₃	O-acyl	F	0	5-Fluoro-6-Methyluracil	Cl	Н
CH ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl_	H
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	Н
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Cl	Н
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	H
CH ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	Cl	Н
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	Н
CH ₃	O-acyl	F	O	6-Methylthymine	Cl	O-amino acid
CH ₃	O-acyl	F	0	6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	F	О	8-Methylguanine	Cl	O-amino acid
CH ₃	O-acyl	F	О	6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	F	О	8-Methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	О	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	F	0	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	F	0	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	0	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid

\mathbb{R}^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	F_	О	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	0_	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	F	Ο	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-acyl	F	О	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	F	0	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	F	0	6-N-acetyl-2-fluoro-8-methyladenine	CI	O-amino acid
CH ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	F	О	2-N-acetylamino-8-	Cl	O-amino acid
		i		methylhypoxanthine		
CH ₃	O-acyl	F	0	6-Methylthymine	Н	H
CH ₃	O-acyl	F	0	6-Methyluracil	Н	Н
CH ₃	O-acyl	F	О	8-Methylguanine	Н	H
CH ₃	O-acyl	F	0	6-Methylcytosine	Н	Н
CH ₃	O-acyl	F	0	8-Methyladenine	Н	Н
CH ₃	O-acyl	F	0	8-Methylhypoxanthine	H	Н
CH ₃	O-acyl	F	0	5-Fluoro-6-Methyluracil	Н	Н
CH ₃	O-acyl	F	О	5-Fluoro-6-Methylcytosine	Н	Н
CH ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	Н	Н
CH ₃	O-acyl	F	О	2-Fluoro-8-methylhypoxanthine	Н	Н
CH ₃	O-acyl	F	О	2-Amino-8-methyladenine	Н	Н
CH ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Н	Н
CH ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Н	Н
CH ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Н	Н
CH ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	Н	Н
CH ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Н	H
CH ₃	O-acyl	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	Н
CH ₃	O-acyl	F	О	6-N-acetyl-2-amino-8-methyladenine	Н	Н
CH ₃	O-acyl	F	0	2-N-acetylamino-8-methyladenine	Н	Н
CH ₃	O-acyl	F	О	2-N-acetylamino-8-	H	Н
				methylhypoxanthine		
CH ₃	O-acyl	F	0	6-Methylthymine	H	O-amino acid
CH ₃	O-acyl	F	O	6-Methyluracil	Н	O-amino acid
CH ₃	O-acyl	F	O	8-Methylguanine	H	O-amino acid
CH ₃	O-acyl	F	O	6-Methylcytosine	H_	O-amino acid
CH ₃	O-acyl	F	O	8-Methyladenine	Н	O-amino acid
CH ₃	O-acyl	F	О	8-Methylhypoxanthine	Н	O-amino acid
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Н	O-amino acid
CH ₃	O-acyl	F	О	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	F	О	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	O-acyl	F	О	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CH ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Н	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CH ₃	O-acyl	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	F	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	F	0	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	F	О	2-N-acetylamino-8-	Н	O-amino acid
				methylhypoxanthine		
CH ₃	O-acyl	F	O	6-Methylthymine	H	O-acyl
CH ₃	O-acyl	F	O	6-Methyluracil	H	O-acyl
CH ₃	O-acyl	F	O	8-Methylguanine	Н	O-acyl
CH ₃	O-acyl	F	0	6-Methylcytosine	H	O-acyl
CH ₃	O-acyl	F	О	8-Methyladenine	H	O-acyl
CH ₃	O-acyl_	F	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Н	O-acyl
CH ₃	O-acyl	F_	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CH ₃	O-acyl	F	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	O-acyl	F	0	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-acyl	F	0_	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	O-acyl	F	0	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	O-acyl	F	0	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	O-acyl	F	0	2-N-acetylamino-8-	H	O-acyl
			ļ	methylhypoxanthine		
CH ₃	O-acyl	F	0	6-Methylthymine	H	OH
CH ₃	O-acyl	F	0	6-Methyluracil	H	ОН
CH ₃	O-acyl	F	0	8-Methylguanine	H	ОН
CH ₃	O-acyl	F	0	6-Methylcytosine	H	ОН
CH ₃	O-acyl	F	0	8-Methyladenine	H	ОН
CH ₃	O-acyl	F	0	8-Methylhypoxanthine	H	OH
CH ₃	O-acyl	F	0	5-Fluoro-6-Methyluracil	Н	ОН
CH ₃	O-acyl_	F	0	5-Fluoro-6-Methylcytosine	H	ОН
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Н	ОН
CH ₃	O-acyl	F	0	2-Fluoro-8-methylhypoxanthine	H	OH
CH ₃	O-acyl	F	0	2-Amino-8-methyladenine	Н	ОН
CH ₃	O-acyl	F	0	2-Amino-8-methylhypoxanthine	Н	ОН
CH ₃	O-acyl	F	Ο,	2-N-acetyl-8-methylguanine	Н	ОН
CH ₃	O-acyl	F	0	4-N-acetyl-8-methylcytosine	Н	ОН
CH ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Н	ОН
CH ₃	O-acyl	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	ОН
CH ₃	O-acyl	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	ОН
CH ₃	O-acyl	F	0	6-N-acetyl-2-amino-8-methyladenine	Н	ОН
CH ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	Н	OH
CH ₃	O-acyl	F	О	2-N-acetylamino-8-	Н	ОН

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
				methylhypoxanthine		
CH ₃	O-acyl	F	O	6-Methylthymine	ОН	Н
CH ₃	O-acyl	F	О	6-Methyluracil	OH	Н
CH ₃	O-acyl	F	О	8-Methylguanine	OH	Н
CH ₃	O-acyl	F	0	6-Methylcytosine	OH	H
CH ₃	O-acyl	F	O	8-Methyladenine	OĤ	Н
CH ₃	O-acyl	F	O	8-Methylhypoxanthine	OH	Н
CH ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	OH	Н
CH ₃	O-acyl	F_	0	5-Fluoro-6-Methylcytosine	OH	Н
CH ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	OH	H
CH ₃	O-acyl	F	О	2-Fluoro-8-methylhypoxanthine	OH	Н
CH ₃	O-acyl	F	О	2-Amino-8-methyladenine	OH	Н
CH ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	OH	Н
CH ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	OH	H
CH ₃	O-acyl	F	О	4-N-acetyl-8-methylcytosine	OH	Н
CH ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	OH	Н
CH ₃	O-acyl	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	ОН	H
CH ₃	O-acyl	F	О	6-N-acetyl-2-fluoro-8-methyladenine	ОН	Н
CH ₃	O-acyl	F	О	6-N-acetyl-2-amino-8-methyladenine	OH	Н
CH ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	OH	Н
CH ₃	O-acyl	F	О	2-N-acetylamino-8-	OH	Н
				methylhypoxanthine		
CH ₃	O-acyl	Br	О	6-Methylthymine	F	Н
CH ₃	O-acyl	Br	О	6-Methyluracil	F	Н
CH ₃	O-acyl	Br	О	8-Methylguanine	F	H
CH ₃	O-acyl	Br	О	6-Methylcytosine	F	Н
CH ₃	O-acyl	Br	O	8-Methyladenine	F	Н
CH ₃	O-acyl	Br	О	8-Methylhypoxanthine	F	Н
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methyluracil	F	Н
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	F	Н
CH ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	F	H
CH ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	F	Н
CH ₃	O-acyl	Br	О	2-Amino-8-methyladenine	F	H
CH ₃	O-acyl	Br	О	2-Amino-8-methylhypoxanthine	F	Н
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	H
CH ₃	O-acyl	Br	О	4-N-acetyl-8-methylcytosine	F	H
CH ₃	O-acyl	Br	О	6-N-acetyl-8-methyladenine	F	Н
CH ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	Н
CH ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	F	Н
CH ₃	O-acyl	Br	О	6-N-acetyl-2-amino-8-methyladenine	F	Н
CH ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	F	Н
CH ₃	O-acyl	Br	О	2-N-acetylamino-8-	F	Н
			1	methylhypoxanthine		
CH ₃	O-acyl	Br	O	6-Methylthymine	F	O-amino acid
CH ₃	O-acyl	Br	О	6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	Br	О	8-Methylguanine	F	O-amino acid
CH ₃	O-acyl	Br	0	6-Methylcytosine	F	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Br	О	8-Methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	О	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl_	Br	О	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	О	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	Br	О	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-acyl	Br	О	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	Br	О	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	0	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Br	О	2-N-acetylamino-8-	F	O-amino acid
1		l	ì	methylhypoxanthine	1	}
CH ₃	O-acyl	Br	0	6-Methylthymine	F	O-acyl
CH ₃	O-acyl	Br	0	6-Methyluracil	F	O-acyl
CH ₃	O-acyl	Br	О	8-Methylguanine	F	O-acyl
CH ₃	O-acyl	Br	0	6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	Br	О	8-Methyladenine	F	O-acyl
CH ₃	O-acyl	Br	О	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Br	0	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Br	О	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Br	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	Br	О	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Br	0	2-N-acetylamino-8-	F	O-acyl
				methylhypoxanthine	1	
CH ₃	O-acyl	Br	О	6-Methylthymine	F	ОН
CH ₃	O-acyl	Br	О	6-Methyluracil	F	ОН
CH ₃	O-acyl	Br	О	8-Methylguanine	F	ОН
CH ₃	O-acyl	Br	О	6-Methylcytosine	F	ОН
CH ₃	O-acyl	Br	O	8-Methyladenine	F	ОН
CH ₃	O-acyl	Br	О	8-Methylhypoxanthine	F	ОН
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methyluracil	F	ОН
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	F	OH
CH ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	F	OH

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Br	o	2-Fluoro-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	Br	0	2-Amino-8-methyladenine	F	OH
CH ₃	O-acyl	Br	0	2-Amino-8-methylhypoxanthine	F	OH
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	F	OH
CH ₃	O-acyl	Br	0	4-N-acetyl-8-methylcytosine	F	ОН
CH ₃	O-acyl	Br	0	6-N-acetyl-8-methyladenine	F	ОН
CH ₃	O-acyl	Br	Ō	4-N-acetyl-5-fluoro-8-methylcytosine	F	ОН
CH ₃	O-acyl	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	F	ОН
CH ₃	O-acyl	Br	0	6-N-acetyl-2-amino-8-methyladenine	F	OH
CH ₃	O-acyl	Br	0	2-N-acetylamino-8-methyladenine	F	ОН
CH ₃	O-acyl	Br	0	2-N-acetylamino-8-	F	ОН
	J -			methylhypoxanthine		
CH ₃	O-acyl	Br	0	6-Methylthymine	Br	Н
CH ₃	O-acyl	Br	0	6-Methyluracil	Br	Н
CH ₃	O-acyl	Br	0	8-Methylguanine	Br	Н
CH ₃	O-acyl	Br	O	6-Methylcytosine	Br	Н
CH ₃	O-acyl	Br	0	8-Methyladenine	Br	Н
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	Н
CH ₃	O-acyl	Br	Ō	5-Fluoro-6-Methyluracil	Br	Н
CH ₃	O-acyl	Br	·O	5-Fluoro-6-Methylcytosine	Br	Н
CH ₃	O-acyl	Br	o	2-Fluoro-8-methyladenine	Br	H
CH ₃	O-acyl	Br	o	2-Fluoro-8-methylhypoxanthine	Br	Н
CH ₃	O-acyl	Br	0	2-Amino-8-methyladenine	Br	Н
CH ₃	O-acyl	Br	0	2-Amino-8-methylhypoxanthine	Br	Н
CH ₃	O-acyl	Br	o	2-N-acetyl-8-methylguanine	Br	Н
CH ₃	O-acyl	Br	0	4-N-acetyl-8-methylcytosine	Br	Н
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	Н
CH ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	Н
CH ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	Н
CH ₃	O-acyl	Br	0	6-N-acetyl-2-amino-8-methyladenine	Br	H
CH ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	Br	Н
CH ₃	O-acyl	Br	О	2-N-acetylamino-8-	Br	Н
	,			methylhypoxanthine		
CH ₃	O-acyl	Br	O	6-Methylthymine	Br	O-amino acid
CH ₃	O-acyl	Br	О	6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	Br	О	8-Methylguanine	Br	O-amino acid
CH ₃	O-acyl	Br	О	6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	Br	О	8-Methyladenine	Br	O-amino acid
CH ₃	O-acyl	Br	О	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Br	0	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-acyl	Br	o	4-N-acetyl-8-methylcytosine	Br	O-amino acid

CH3 O-acyl Br O 4-N-acetyl-5-fluoro-8-methyladenine Br O-amino a CH3 O-acyl Br O 6-N-acetyl-2-amino-8-methyladenine Br O-amino a CH3 O-acyl Br O 6-N-acetyl-2-amino-8-methyladenine Br O-amino a CH3 O-acyl Br O 2-N-acetylamino-8-methyladenine Br O-amino a CH3 O-acyl Br O 2-N-acetylamino-8-methyladenine Br O-amino a CH3 O-acyl Br O 6-Methyltymnine Br O-acyl CH3 O-acyl Br O 8-Methyltymnine Br O-acyl CH3 O-acyl Br O 8-Methyltypoxnthine <	R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃ O-acyl Br O 6-N-acetyl-2-fluoro-8-methyladenine Br O-amino a CH ₃ O-acyl Br O 6-N-acetyl-2-amino-8-methyladenine Br O-amino a CH ₃ O-acyl Br O 2-N-acetylamino-8-methyladenine Br O-amino a CH ₃ O-acyl Br O 6-Methylthymine Br O-amino a CH ₃ O-acyl Br O 6-Methylthymine Br O-acyl CH ₃ O-acyl Br O 6-Methyltylosine Br O-acyl CH ₃ O-acyl Br O 6-Methylylosonine Br O-acyl CH ₃ O-acyl Br O 8-Methyladenine Br O-acyl CH ₃ O-acyl Br O 8-Methyladenine Br O-acyl CH ₃ O-acyl Br O 8-Methyladenine Br O-acyl CH ₃ O-acyl Br O 5-Fluoro-6-Methyluycosine Br </td <td>CH₃</td> <td>O-acyl</td> <td>Br</td> <td>О</td> <td>6-N-acetyl-8-methyladenine</td> <td>Br</td> <td>O-amino acid</td>	CH ₃	O-acyl	Br	О	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃ O-acyl Br O 6-N-acetyl-2-fluoro-8-methyladenine Br O-amino a CH ₃ O-acyl Br O 6-N-acetyl-2-amino-8-methyladenine Br O-amino a CH ₃ O-acyl Br O 2-N-acetylamino-8-methyladenine Br O-amino a CH ₃ O-acyl Br O 6-Methylthymine Br O-acmino a CH ₃ O-acyl Br O 6-Methylthymine Br O-acyl CH ₃ O-acyl Br O 6-Methylthymine Br O-acyl CH ₃ O-acyl Br O 6-Methyltytosine Br O-acyl CH ₃ O-acyl Br O 8-Methyladenine Br O-acyl CH ₃ O-acyl Br O 8-Methyladenine Br O-acyl CH ₃ O-acyl Br O 8-Fluoro-6-Methyluracil Br O-acyl CH ₃ O-acyl Br O 2-Fluoro-8-methyladenine <t< td=""><td>CH₃</td><td>O-acyl</td><td>Br</td><td>О</td><td>4-N-acetyl-5-fluoro-8-methylcytosine</td><td>Br</td><td>O-amino acid</td></t<>	CH ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃ O-acyl Br O 2-N-acetylamino-8-methyladenine Br O-amino a methylhypoxanthine CH ₃ O-acyl Br O 2-N-acetylamino-8-methyladenine Br O-amino a methylhypoxanthine CH ₃ O-acyl Br O 6-Methyltymine Br O-acyl CH ₃ O-acyl Br O 6-Methyltypoxanthine Br O-acyl CH ₃ O-acyl Br O 6-Methyltypoxanthine Br O-acyl CH ₃ O-acyl Br O 6-Methyltypoxanthine Br O-acyl CH ₃ O-acyl Br O 8-Methyladenine Br O-acyl CH ₃ O-acyl Br O 8-Methyladenine Br O-acyl CH ₃ O-acyl Br O 5-Fluoro-6-Methylcytosine Br O-acyl CH ₃ O-acyl Br O 2-Fluoro-8-methyladenine Br O-acyl CH ₃ O-acyl Br O 2-Amino-	CH ₃		Br	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH₃ O-acyl Br O 2-N-acetylamino-8-methyladenine Br O-amino a methylhypoxanthine CH₃ O-acyl Br O 2-N-acetylamino-8-methyladenine Br O-amino a methylhypoxanthine CH₃ O-acyl Br O 6-Methyltymine Br O-acyl CH₃ O-acyl Br O 6-Methyluracil Br O-acyl CH₃ O-acyl Br O 6-Methyluracil Br O-acyl CH₃ O-acyl Br O 8-Methyladenine Br O-acyl CH₃ O-acyl Br O 8-Methyladenine Br O-acyl CH₃ O-acyl Br O 8-Methyladenine Br O-acyl CH₃ O-acyl Br O 8-Fluoro-6-Methyluracil Br O-acyl CH₃ O-acyl Br O 2-Fluoro-8-methyladenine Br O-acyl CH₃ O-acyl Br O 2-Amino-8-methyladenine Br			Br	0		Br	O-amino acid
CH ₃ O-acyl Br O 2-N-acetylamino-8-methylhypoxanthine Br O-amino a methylhypoxanthine CH ₃ O-acyl Br O 6-Methylthymine Br O-acyl CH ₃ O-acyl Br O 6-Methylguanine Br O-acyl CH ₃ O-acyl Br O 6-Methylguanine Br O-acyl CH ₃ O-acyl Br O 6-Methylguanine Br O-acyl CH ₃ O-acyl Br O 8-Methylguanine Br O-acyl CH ₃ O-acyl Br O 8-Methylguanine Br O-acyl CH ₃ O-acyl Br O 5-Fluoro-6-Methylcytosine Br O-acyl CH ₃ O-acyl Br O 2-Fluoro-8-methyladenine Br O-acyl CH ₃ O-acyl Br O 2-Fluoro-8-methyladenine Br O-acyl CH ₃ O-acyl Br O 2-N-acetyl-8-methyladenine Br			Br	0	2-N-acetylamino-8-methyladenine	Br	O-amino acid
methylhypoxanthine			Br	O		Br	O-amino acid
CH ₃ O-acyl Br O 6-Methylthymine Br O-acyl CH ₃ O-acyl Br O 6-Methyluracil Br O-acyl CH ₃ O-acyl Br O 8-Methylguanine Br O-acyl CH ₃ O-acyl Br O 6-Methylcytosine Br O-acyl CH ₃ O-acyl Br O 8-Methylhypoxanthine Br O-acyl CH ₃ O-acyl Br O 8-Methylhypoxanthine Br O-acyl CH ₃ O-acyl Br O 5-Fluoro-6-Methylcytosine Br O-acyl CH ₃ O-acyl Br O 5-Fluoro-6-Methylcytosine Br O-acyl CH ₃ O-acyl Br O 2-Fluoro-8-methyladenine Br O-acyl CH ₃ O-acyl Br O 2-Fluoro-8-methyladenine Br O-acyl CH ₃ O-acyl Br O 2-N-acetyl-8-methylguanine Br O-acy	١	,		İ		}	
CH ₃ O-acyl Br O 6-Methyluracil Br O-acyl CH ₃ O-acyl Br O 8-Methylguanine Br O-acyl CH ₃ O-acyl Br O 6-Methylguanine Br O-acyl CH ₃ O-acyl Br O 8-Methylguanine Br O-acyl CH ₃ O-acyl Br O 8-Methylguanine Br O-acyl CH ₃ O-acyl Br O 8-Methylguanine Br O-acyl CH ₃ O-acyl Br O 5-Fluoro-6-Methylguanine Br O-acyl CH ₃ O-acyl Br O 2-Fluoro-8-methylguanine Br O-acyl CH ₃ O-acyl Br O 2-Fluoro-8-methylguanine Br O-acyl CH ₃ O-acyl Br O 2-Amino-8-methylguanine Br O-acyl CH ₃ O-acyl Br O 2-N-acetyl-8-methylguanine Br O-acyl <td>CH₃</td> <td>O-acyl</td> <td>Br</td> <td>О</td> <td></td> <td>Br</td> <td>O-acyl</td>	CH ₃	O-acyl	Br	О		Br	O-acyl
CH ₃ O-acyl Br O 8-Methylguanine Br O-acyl CH ₃ O-acyl Br O 6-Methylcytosine Br O-acyl CH ₃ O-acyl Br O 8-Methyladenine Br O-acyl CH ₃ O-acyl Br O 8-Methyladenine Br O-acyl CH ₃ O-acyl Br O 5-Fluoro-6-Methylcytosine Br O-acyl CH ₃ O-acyl Br O 5-Fluoro-6-Methylcytosine Br O-acyl CH ₃ O-acyl Br O 2-Fluoro-8-methyladenine Br O-acyl CH ₃ O-acyl Br O 2-Fluoro-8-methyladenine Br O-acyl CH ₃ O-acyl Br O 2-Amino-8-methyladenine Br O-acyl CH ₃ O-acyl Br O 2-N-acetyl-8-methylagenine Br O-acyl CH ₃ O-acyl Br O 4-N-acetyl-8-methylagenine Br	CH ₃		Br	0		Br	
CH ₃ O-acyl Br O 6-Methylcytosine Br O-acyl CH ₃ O-acyl Br O 8-Methyladenine Br O-acyl CH ₃ O-acyl Br O 8-Methylhypoxanthine Br O-acyl CH ₃ O-acyl Br O 5-Fluoro-6-Methylytosine Br O-acyl CH ₃ O-acyl Br O 5-Fluoro-8-methyladenine Br O-acyl CH ₃ O-acyl Br O 2-Fluoro-8-methylhypoxanthine Br O-acyl CH ₃ O-acyl Br O 2-Fluoro-8-methylhypoxanthine Br O-acyl CH ₃ O-acyl Br O 2-Amino-8-methylhypoxanthine Br O-acyl CH ₃ O-acyl Br O 2-N-acetyl-8-methylguanine Br O-acyl CH ₃ O-acyl Br O 4-N-acetyl-8-methylguanine Br O-acyl CH ₃ O-acyl Br O 6-N-acetyl-8-methylgytosine <td></td> <td></td> <td>Br</td> <td>О</td> <td></td> <td>Вг</td> <td></td>			Br	О		Вг	
CH3 O-acyl Br O 8-Methyladenine Br O-acyl CH3 O-acyl Br O 8-Methylhypoxanthine Br O-acyl CH3 O-acyl Br O 5-Fluoro-6-Methyluracil Br O-acyl CH3 O-acyl Br O 5-Fluoro-6-Methylcytosine Br O-acyl CH3 O-acyl Br O 2-Fluoro-8-methyladenine Br O-acyl CH3 O-acyl Br O 2-Fluoro-8-methyladenine Br O-acyl CH3 O-acyl Br O 2-Fluoro-8-methyladenine Br O-acyl CH3 O-acyl Br O 2-Amino-8-methyladenine Br O-acyl CH3 O-acyl Br O 2-N-acetyl-8-methyladenine Br O-acyl CH3 O-acyl Br O 4-N-acetyl-8-methyladenine Br O-acyl CH3 O-acyl Br O 6-N-acetyl-8-methyladenine Br			Br	О		Br	
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CH3O-acylBrO2-Amino-8-methyladenineBrO-acylCH3O-acylBrO2-Amino-8-methylhypoxanthineBrO-acylCH3O-acylBrO2-N-acetyl-8-methylguanineBrO-acylCH3O-acylBrO4-N-acetyl-8-methylcytosineBrO-acylCH3O-acylBrO6-N-acetyl-8-methyladenineBrO-acylCH3O-acylBrO4-N-acetyl-5-fluoro-8-methylcytosineBrO-acylCH3O-acylBrO6-N-acetyl-2-fluoro-8-methyladenineBrO-acylCH3O-acylBrO6-N-acetyl-2-amino-8-methyladenineBrO-acylCH3O-acylBrO2-N-acetylamino-8-methyladenineBrO-acylCH3O-acylBrO2-N-acetylamino-8-methyladenineBrO-acylCH3O-acylBrO6-MethylthymineBrO-acylCH3O-acylBrO6-MethyltymineBrOHCH3O-acylBrO6-MethylcytosineBrOHCH3O-acylBrO6-MethylcytosineBrOHCH3O-acylBrO8-MethyladenineBrOHCH3O-acylBrO8-MethyladenineBrOHCH3O-acylBrO8-MethyladenineBrOHCH3O-acylBrO8-MethyladenineBrOH </td <td></td> <td></td> <td>Br</td> <td>0</td> <td></td> <td>Br</td> <td></td>			Br	0		Br	
CH ₃ O-acyl Br O 2-Amino-8-methylhypoxanthine Br O-acyl CH ₃ O-acyl Br O 2-N-acetyl-8-methylguanine Br O-acyl CH ₃ O-acyl Br O 4-N-acetyl-8-methylgytosine Br O-acyl CH ₃ O-acyl Br O 6-N-acetyl-8-methylgytosine Br O-acyl CH ₃ O-acyl Br O 4-N-acetyl-5-fluoro-8-methylgytosine Br O-acyl CH ₃ O-acyl Br O 6-N-acetyl-2-fluoro-8-methylgenine Br O-acyl CH ₃ O-acyl Br O 6-N-acetyl-2-amino-8-methylgenine Br O-acyl CH ₃ O-acyl Br O 2-N-acetylgmino-8-methylgenine Br O-acyl CH ₃ O-acyl Br O 2-N-acetylgmino-8-methylgenine Br O-acyl CH ₃ O-acyl Br O 6-Methyltypoxanthine Br O-acyl CH ₃ O-acyl Br							
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CH3O-acylBrO4-N-acetyl-8-methylcytosineBrO-acylCH3O-acylBrO6-N-acetyl-8-methyladenineBrO-acylCH3O-acylBrO4-N-acetyl-5-fluoro-8-methylcytosineBrO-acylCH3O-acylBrO6-N-acetyl-2-fluoro-8-methyladenineBrO-acylCH3O-acylBrO6-N-acetyl-2-amino-8-methyladenineBrO-acylCH3O-acylBrO2-N-acetylamino-8-methyladenineBrO-acylCH3O-acylBrO2-N-acetylamino-8-methyladenineBrO-acylCH3O-acylBrO6-MethylthymineBrO-acylCH3O-acylBrO6-MethylthymineBrOHCH3O-acylBrO8-MethylguanineBrOHCH3O-acylBrO8-MethyladenineBrOHCH3O-acylBrO8-MethylhypoxanthineBrOHCH3O-acylBrO8-MethylhypoxanthineBrOHCH3O-acylBrO8-MethylhypoxanthineBrOHCH3O-acylBrO8-MethylhypoxanthineBrOHCH3O-acylBrO8-MethylhypoxanthineBrOH				 		 	
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$\begin{array}{ c c c c c c c c }\hline CH_3 & O\text{-acyl} & Br & O & 6\text{-N-acetyl-2-amino-8-methyladenine} & Br & O\text{-acyl} \\ \hline CH_3 & O\text{-acyl} & Br & O & 2\text{-N-acetylamino-8-methyladenine} & Br & O\text{-acyl} \\ \hline CH_3 & O\text{-acyl} & Br & O & 2\text{-N-acetylamino-8-} & Br & O\text{-acyl} \\ \hline CH_3 & O\text{-acyl} & Br & O & 6\text{-Methylthymine} & Br & OH \\ \hline CH_3 & O\text{-acyl} & Br & O & 6\text{-Methyluracil} & Br & OH \\ \hline CH_3 & O\text{-acyl} & Br & O & 8\text{-Methylguanine} & Br & OH \\ \hline CH_3 & O\text{-acyl} & Br & O & 6\text{-Methylcytosine} & Br & OH \\ \hline CH_3 & O\text{-acyl} & Br & O & 8\text{-Methyladenine} & Br & OH \\ \hline CH_3 & O\text{-acyl} & Br & O & 8\text{-Methyladenine} & Br & OH \\ \hline CH_3 & O\text{-acyl} & Br & O & 8\text{-Methylhypoxanthine} & Br & OH \\ \hline CH_3 & O\text{-acyl} & Br & O & 8\text{-Methylhypoxanthine} & Br & OH \\ \hline CH_3 & O\text{-acyl} & Br & O & 5\text{-Fluoro-6-Methyluracil} & Br & OH \\ \hline \end{array}$			Br	О		Br	
CH3O-acylBrO2-N-acetylamino-8-methyladenineBrO-acylCH3O-acylBrO2-N-acetylamino-8- methylhypoxanthineBrO-acylCH3O-acylBrO6-MethylthymineBrOHCH3O-acylBrO6-MethyluracilBrOHCH3O-acylBrO8-MethylguanineBrOHCH3O-acylBrO6-MethylcytosineBrOHCH3O-acylBrO8-MethyladenineBrOHCH3O-acylBrO8-MethylhypoxanthineBrOHCH3O-acylBrO5-Fluoro-6-MethyluracilBrOH				О			
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methylhypoxanthineCH3O-acylBrO6-MethylthymineBrOHCH3O-acylBrO6-MethyluracilBrOHCH3O-acylBrO8-MethylguanineBrOHCH3O-acylBrO6-MethylcytosineBrOHCH3O-acylBrO8-MethyladenineBrOHCH3O-acylBrO8-MethylhypoxanthineBrOHCH3O-acylBrO5-Fluoro-6-MethyluracilBrOH				0		Br	
CH3O-acylBrO6-MethylthymineBrOHCH3O-acylBrO6-MethyluracilBrOHCH3O-acylBrO8-MethylguanineBrOHCH3O-acylBrO6-MethylcytosineBrOHCH3O-acylBrO8-MethyladenineBrOHCH3O-acylBrO8-MethylhypoxanthineBrOHCH3O-acylBrO5-Fluoro-6-MethyluracilBrOH	,]					'	
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CH3O-acylBrO8-MethylguanineBrOHCH3O-acylBrO6-MethylcytosineBrOHCH3O-acylBrO8-MethyladenineBrOHCH3O-acylBrO8-MethylhypoxanthineBrOHCH3O-acylBrO5-Fluoro-6-MethyluracilBrOH	CH ₃		Br	0		Br	OH
CH3O-acylBrO8-MethyladenineBrOHCH3O-acylBrO8-MethylhypoxanthineBrOHCH3O-acylBrO5-Fluoro-6-MethyluracilBrOH	CH ₃	O-acyl	Br	0		Br	ОН
CH3O-acylBrO8-MethyladenineBrOHCH3O-acylBrO8-MethylhypoxanthineBrOHCH3O-acylBrO5-Fluoro-6-MethyluracilBrOH	CH ₃	O-acyl	Br	0	6-Methylcytosine	Br	OH
CH3O-acylBrO8-MethylhypoxanthineBrOHCH3O-acylBrO5-Fluoro-6-MethyluracilBrOH	CH ₃		Br	0	8-Methyladenine	Br	ОН
	CH ₃		Br	0	8-Methylhypoxanthine	Br	OH
CH ₂ O-acyl Br O 5-Fluoro-6-Methylcytosine Br OH	CH ₃	O-acyl	Br	0	5-Fluoro-6-Methyluracil	Br	ОН
1 CARD C ROLL C C I REGIO O MIGHINIONIC DI CII	CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	ОН
CH ₃ O-acyl Br O 2-Fluoro-8-methyladenine Br OH			Br	О	2-Fluoro-8-methyladenine	Br	OH
CH ₃ O-acyl Br O 2-Fluoro-8-methylhypoxanthine Br OH			Br	О		Br	ОН
CH ₃ O-acyl Br O 2-Amino-8-methyladenine Br OH		<u> </u>	Br	О		Br	ОН
CH ₃ O-acyl Br O 2-Amino-8-methylhypoxanthine Br OH		O-acyl	Br	О	2-Amino-8-methylhypoxanthine	Br	ОН
CH ₃ O-acyl Br O 2-N-acetyl-8-methylguanine Br OH			Br	O		Br	ОН
CH ₃ O-acyl Br O 4-N-acetyl-8-methylcytosine Br OH			Br	О		Br	OH
CH ₃ O-acyl Br O 6-N-acetyl-8-methyladenine Br OH			Br	О		Br	OH
CH ₃ O-acyl Br O 4-N-acetyl-5-fluoro-8-methylcytosine Br OH			Br	О		Br	ОН
CH ₃ O-acyl Br O 6-N-acetyl-2-fluoro-8-methyladenine Br OH				О		Br	
CH ₃ O-acyl Br O 6-N-acetyl-2-amino-8-methyladenine Br OH		· · · · · · · · · · · · · · · · · · ·	Br	Ö		Br	ОН
CH ₃ O-acyl Br O 2-N-acetylamino-8-methyladenine Br OH		·		О		Br	ОН

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Br	О	2-N-acetylamino-8-	Br	ОН
				methylhypoxanthine		
CH ₃	O-acyl	Br	O	6-Methylthymine	Cl	Н
CH ₃	O-acyl	Br	О	6-Methyluracil	Cl	Н
CH ₃	O-acyl	Br	О	8-Methylguanine	Cl	Н
CH ₃	O-acyl	Br	О	6-Methylcytosine	Cl	Н
CH ₃	O-acyl	Br	O	8-Methyladenine	Cl	Н
CH ₃	O-acyl	Br	О	8-Methylhypoxanthine	Cl	Н
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methyluracil	Cl	Н
CH ₃	O-acyl	Br	0	5-Fluoro-6-Methylcytosine	Cl	Н
CH ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	Cl	Н
CH ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	Cl	Н
CH ₃	O-acyl	Br	0	2-Amino-8-methyladenine	Cl	Н
CH ₃	O-acyl	Br	0	2-Amino-8-methylhypoxanthine	Cl	Н
CH ₃	O-acyl	Br	О	2-N-acetyl-8-methylguanine	Cl	Н
CH ₃	O-acyl	Br	О	4-N-acetyl-8-methylcytosine	Cl	Н
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	Н
CH ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CH ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	Н
CH ₃	O-acyl	Br	О	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Cl	Н
CH ₃	O-acyl	Br	0	2-N-acetylamino-8-	Cl	Н
			ļ	methylhypoxanthine		
CH ₃	O-acyl	Br	О	6-Methylthymine	Cl	O-amino acid
CH ₃	O-acyl	Br	0	6-Methyluracil	CI	O-amino acid
CH ₃	O-acyl	Br	О	8-Methylguanine	Cl	O-amino acid
CH ₃	O-acyl	Br	0	6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Br	О	8-Methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	0	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	Br	0	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Br	0	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Br	О	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	0	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Br	О	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-acyl	Br	О	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	Ο.	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Br	О	2-N-acetylamino-8-	Cl	O-amino acid
				methylhypoxanthine	_1	
CH ₃	O-acyl	Br	О	6-Methylthymine	Cl	O-acyl
CH ₃	O-acyl	Br	О	6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	Br	О	8-Methylguanine	Cl	O-acyl

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Br	О	6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Br	О	8-Methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	0	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Br	0	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	Br	0	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Br	0	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	0	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Br	0	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	0	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Br	О	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	Ó	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Br	0	2-N-acetylamino-8-	Cl	O-acyl
			_	methylhypoxanthine		
CH ₃	O-acyl	Br	O	6-Methylthymine	Cl	ОН
CH ₃	O-acyl	Br	O	6-Methyluracil	ČI	ОН
CH ₃	O-acyl	Br	O	8-Methylguanine	CI	ОН
CH ₃	O-acyl	Br	0	6-Methylcytosine	Cl	ОН
CH ₃	O-acyl	Br	O	8-Methyladenine	CI	ОН
CH ₃	O-acyl	Br	0	8-Methylhypoxanthine	Cl	ОН
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Cl	ОН
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Cl	ОН
CH ₃	O-acyl	Br	0	2-Fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	OH
CH ₃	O-acyl	Br	О	2-Amino-8-methyladenine	Cl	OH.
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	ОН
CH ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	OH
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	ОН
CH ₃	O-acyl	Br	Ō	6-N-acetyl-8-methyladenine	Cl	ОН
CH ₃	O-acyl	Br	Ō	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	ОН
CH ₃	O-acyl	Br	Ō	6-N-acetyl-2-fluoro-8-methyladenine	Cl .	ОН
CH ₃	O-acyl	Br	Ō	6-N-acetyl-2-amino-8-methyladenine	Cl	ОН
CH ₃	O-acyl	Br	ŏ	2-N-acetylamino-8-methyladenine	Cl	ОН
CH ₃	O-acyl	Br	Ō	2-N-acetylamino-8-	Cl	ОН
0113	0		Ĭ	methylhypoxanthine		
CH ₃	O-acyl	Br	О	6-Methylthymine	H	Н
CH ₃	O-acyl	Br	Ō	6-Methyluracil	Н	Н
CH ₃	O-acyl	Br	o	8-Methylguanine	H	Н
CH ₃	O-acyl	Br	O	6-Methylcytosine	H	Н
CH ₃	O-acyl	Br	o	8-Methyladenine	H	H
CH ₃	O-acyl	Br	o	8-Methylhypoxanthine	H	H
CH ₃	O-acyl	Br	ō	5-Fluoro-6-Methyluracil	H	Н
CH ₃	O-acyl	Br	ō	5-Fluoro-6-Methylcytosine	H	Н
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R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Н	Н
CH ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	Н
CH ₃	O-acyl	Br	0	2-Amino-8-methyladenine	Н	Н
CH ₃	O-acyl	Br	0	2-Amino-8-methylhypoxanthine	Н	Н
CH ₃	O-acyl	Br	0	2-N-acetyl-8-methylguanine	Н	Н .
CH ₃	O-acyl	Br	0	4-N-acetyl-8-methylcytosine	H	H
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Н	Н
CH ₃	O-acyl	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	Н	Н
CH ₃	O-acyl	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	H	Н
CH ₃	O-acyl	Br	0	6-N-acetyl-2-amino-8-methyladenine	Н	Н
CH ₃	O-acyl	Br	0	2-N-acetylamino-8-methyladenine	Н	Н
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-	H	Н
				methylhypoxanthine		
CH ₃	O-acyl	Br	O	6-Methylthymine	Н	O-amino acid
CH ₃	O-acyl	Br	O	6-Methyluracil	Н	O-amino acid
CH ₃	O-acyl	Br	О	8-Methylguanine	Н	O-amino acid
CH ₃	O-acyl	Br	0	6-Methylcytosine	Н	O-amino acid
CH ₃	O-acyl	Br	Ō	8-Methyladenine	Н	O-amino acid
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Н	O-amino acid
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	Br	0	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-acyl	Br	О	2-N-acetyl-8-methylguanine	Н	O-amino acid
CH ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CH ₃	O-acyl	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	Br	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	Br	0	2-N-acetylamino-8-	Н	O-amino acid
			1	methylhypoxanthine		
CH ₃	O-acyl	Br	0	6-Methylthymine	H	O-acyl
CH ₃	O-acyl	Br	O	6-Methyluracil	Н	O-acyl
CH ₃	O-acyl	Br	О	8-Methylguanine	Н	O-acyl
CH ₃	O-acyl	Br	О	6-Methylcytosine	Н	O-acyl
CH ₃	O-acyl	Br	О	8-Methyladenine	Н	O-acyl
CH ₃	O-acyl	Br	0	8-Methylhypoxanthine	Н	O-acyl
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Н	O-acyl
CH ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Н	O-acyl
CH ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CH ₃	O-acyl	Br	О	2-Amino-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Н	O-acyl
CH ₃	O-acyl	Br	0	2-N-acetyl-8-methylguanine	Н	O-acyl

\mathbf{R}^{6}	\mathbb{R}^7	\mathbb{R}^8	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Br	Ο	4-N-acetyl-8-methylcytosine	Н	O-acyl
CH ₃	O-acyl	Br	О	6-N-acetyl-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CH ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Br	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Br	О	2-N-acetylamino-8-	Н	O-acyl
	-			methylhypoxanthine		
CH ₃	O-acyl	Br	0	6-Methylthymine	Н	OH
CH ₃	O-acyl	Br	0	6-Methyluracil	Н	OH
CH ₃	O-acyl	Br	О	8-Methylguanine	Н	ОН
CH ₃	O-acyl	Br	О	6-Methylcytosine	Н	OH
CH ₃	O-acyl	Br	О	8-Methyladenine	Н	OH
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	Н	ОН
CH ₃	O-acyl	Br	0	5-Fluoro-6-Methyluracil	H	ОН
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	Н	ОН
CH ₃	O-acyl	Br	0	2-Fluoro-8-methyladenine	H	ОН
CH ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	Н	OH
CH ₃	O-acyl	Br	0	2-Amino-8-methyladenine	Н	ОН
CH ₃	O-acyl	Br	О	2-Amino-8-methylhypoxanthine	Н	OH
CH ₃	O-acyl	Вr	.O	2-N-acetyl-8-methylguanine	Н	OH
CH ₃	O-acyl	Br	О	4-N-acetyl-8-methylcytosine	Н	OH
CH ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Н	OH
CH ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	ОН
CH ₃	O-acyl	Br	Ò	6-N-acetyl-2-fluoro-8-methyladenine	Н	ОН
CH ₃	O-acyl	Br	О	6-N-acetyl-2-amino-8-methyladenine	Н	ОН
CH ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	Н	ОН
CH ₃	O-acyl	Br	O	2-N-acetylamino-8-	Н	OH
				methylhypoxanthine		
CH ₃	O-acyl	Br	O	6-Methylthymine	OH	H
CH_3	O-acyl	Br	O	6-Methyluracil	OH	H
CH ₃	O-acyl	Br	0	8-Methylguanine	OH	H
CH ₃	O-acyl	Br	О	6-Methylcytosine	OH	H
CH ₃	O-acyl	Br	О	8-Methyladenine	OH	Н
CH ₃	O-acyl	Br	O	8-Methylhypoxanthine	OH	Н
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methyluracil	OH	<u>H</u>
CH ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	OH	H
CH ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	OH	H
CH ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	OH	Н
CH ₃	O-acyl	Br	0	2-Amino-8-methyladenine	OH	H
CH ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	OH	H
CH ₃	O-acyl	Br	О	2-N-acetyl-8-methylguanine	OH	H
CH ₃	O-acyl	Br	О	4-N-acetyl-8-methylcytosine	OH	Н
CH ₃	O-acyl	Br	О	6-N-acetyl-8-methyladenine	OH	Н
CH ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	OH	Н
CH ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CH ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	OH	Η

\mathbb{R}^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Br	0	2-N-acetylamino-8-methyladenine	ОН	Н
CH ₃	O-acyl	Br	0	2-N-acetylamino-8-	ОН	Н
				methylhypoxanthine		
CH ₃	O-acyl	Cl	0	6-Methylthymine	F	Н
CH ₃	O-acyl	Cl	0	6-Methyluracil	F	Н
CH ₃	O-acyl	Cl.	O	8-Methylguanine	F	Н
CH ₃	O-acyl	Cl	0	6-Methylcytosine	F	H
CH ₃	O-acyl	Cl	O	8-Methyladenine	F	Н
CH ₃	O-acyl	Cl	О	8-Methylhypoxanthine	F	Н
CH ₃	O-acyl	Cl	0	5-Fluoro-6-Methyluracil	F	Н
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	Н
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methyladenine	F	Н
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	H
CH ₃	O-acyl	Cl	О	2-Amino-8-methyladenine	F	Н
CH ₃	O-acyl	Cl	0	2-Amino-8-methylhypoxanthine	F	Н
CH ₃	O-acyl	CĨ	О	2-N-acetyl-8-methylguanine	F	Н
CH ₃	O-acyl	Cl	О	4-N-acetyl-8-methylcytosine	F	Н
CH ₃	O-acyl	Cl	0	6-N-acetyl-8-methyladenine	F	Н
CH ₃	O-acyl	Cl	0	4-N-acetyl-5-fluoro-8-methylcytosine	F	Н
CH ₃	O-acyl	CI	O	6-N-acetyl-2-fluoro-8-methyladenine	F	Н
CH ₃	O-acyl	Cl	О	6-N-acetyl-2-amino-8-methyladenine	F	Н
CH ₃	O-acyl	CI	0	2-N-acetylamino-8-methyladenine	F	Н
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-	F	Н
			1	methylhypoxanthine		
CH ₃	O-acyl	Cl	0	6-Methylthymine	F	O-amino acid
CH ₃	O-acyl	CĪ	O	6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	Cl	0	8-Methylguanine	F	O-amino acid
CH ₃	O-acyl	Cl	0	6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	Cl	О	8-Methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	О	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-acyl	Cl	Ο	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F_	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-acyl	Cl	О	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	Cl	О	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-acyl	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	О	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-acyl	Cl	О	2-N-acetylamino-8-	F	O-amino acid
		<u></u>		methylhypoxanthine		
CH ₃	O-acyl	Cl	О	6-Methylthymine	F	O-acyl
CH ₃	O-acyl	Cl	О	6-Methyluracil	F	O-acyl

\mathbb{R}^6	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Cl	О	8-Methylguanine	F	O-acyl
CH ₃	O-acyl	Cl	О	6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	Cl	О	8-Methyladenine	F	O-acyl
CH ₃	O-acyl	CÎ	Ó	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Cl	0	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-acyl	Cl	0	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	Cl	0	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	О	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	0	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-acyl	Cl	0	2-N-acetylamino-8-	F	O-acyl
	-			methylhypoxanthine	Į.	
CH ₃	O-acyl	Cl	О	6-Methylthymine	F	OH
CH ₃	O-acyl	Cl	О	6-Methyluracil	F	ОН
CH ₃	O-acyl	Cl	O	8-Methylguanine	F	OH
CH ₃	O-acyl	Cl	О	6-Methylcytosine	F	ОН
CH ₃	O-acyl	CI	0	8-Methyladenine	F	OH
CH ₃	O-acyl	Cl	О	8-Methylhypoxanthine	F	OH
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methyluracil	F	OH
CH ₃	O-acyl	CĪ	О	5-Fluoro-6-Methylcytosine	F	ОН
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methyladenine	F	OH
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methylhypoxanthine	F	ОН
CH ₃	O-acyl	Cl	О	2-Amino-8-methyladenine	F	OH
CH ₃	O-acyl_	Cl	О	2-Amino-8-methylhypoxanthine	F	ОН
CH ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	ОН
CH ₃	O-acyl	Cl	О	4-N-acetyl-8-methylcytosine	F	ОН
CH ₃	O-acyl	CI	О	6-N-acetyl-8-methyladenine	F_	ОН
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CH ₃	O-acyl	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	F	ОН
CH ₃	O-acyl	Cl	О	6-N-acetyl-2-amino-8-methyladenine	F	ОН
CH ₃	O-acyl	Cl	O.	2-N-acetylamino-8-methyladenine	F	ОН
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-	F	OH
		<u> </u>		methylhypoxanthine	1	
CH ₃	O-acyl	Cl	O	6-Methylthymine	Br	Н
CH ₃	O-acyl	Cl	0	6-Methyluracil	Br	H
CH ₃	O-acyl	Cl	0	8-Methylguanine	Br	H
CH ₃	O-acyl	C1	0	6-Methylcytosine	Br	Н
CH ₃	O-acyl	Cl	0	8-Methyladenine	Br	H
CH ₃	O-acyl	Cl	0	8-Methylhypoxanthine	Br	H
CH ₃	O-acyl	Cl	O_	5-Fluoro-6-Methyluracil	Br	H

CH3 O-acyl CI O 5-Fluoro-8-methyladenine Br H CH3 O-acyl CI O 2-Fluoro-8-methyladenine Br H CH3 O-acyl CI O 2-Fluoro-8-methylpyoxanthine Br H CH3 O-acyl CI O 2-Amino-8-methylpyoxanthine Br H CH3 O-acyl CI O 2-Amino-8-methylpyoxanthine Br H CH3 O-acyl CI O 2-Amino-8-methylpyoxanthine Br H CH3 O-acyl CI O 2-Amacetyl-8-methylgyoxine Br H CH3 O-acyl CI O 4-N-acetyl-8-methylgytosine Br H CH3 O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine Br H CH3 O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine Br H CH3 O-acyl CI O 6-N-acetyl-3-mino-8-methyladenine Br	R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃ O-acyl CI O 2-Fluoro-8-methylhypoxanthine Br H CH ₃ O-acyl CI O 2-Amino-8-methyladenine Br H CH ₃ O-acyl CI O 2-Amino-8-methylyhypoxanthine Br H CH ₃ O-acyl CI O 2-N-acetyl-8-methylguanine Br H CH ₃ O-acyl CI O 4-N-acetyl-8-methylguanine Br H CH ₃ O-acyl CI O 4-N-acetyl-2-fluoro-8-methylguanine Br H CH ₃ O-acyl CI O 6-N-acetyl-2-fluoro-8-methylguanine Br H CH ₃ O-acyl CI O 6-N-acetyl-2-mino-8-methylguanine Br H CH ₃ O-acyl CI O 6-Methyltymine Br H CH ₃ O-acyl CI O 6-Methyltymine Br O-amino acid CH ₃ O-acyl CI O 6-Methyltymine Br	CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methylcytosine	Br	Н
CH ₃ O-acyl CI O 2-Amino-8-methyladenine Br H CH ₃ O-acyl CI O 2-Amino-8-methylhypoxanthine Br H CH ₃ O-acyl CI O 2-N-acetyl-8-methylogione Br H CH ₃ O-acyl CI O 4-N-acetyl-8-methylogione Br H CH ₃ O-acyl CI O 6-N-acetyl-8-methylogione Br H CH ₃ O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine Br H CH ₃ O-acyl CI O 6-N-acetyl-2-dmino-8-methyladenine Br H CH ₃ O-acyl CI O 6-N-acetyl-2-dmino-8-methyladenine Br H CH ₃ O-acyl CI O 6-N-acetyl-2-amino-8-methyladenine Br H CH ₃ O-acyl CI O 6-Methyltymine Br D-amino acid CH ₃ O-acyl CI O 8-Methyltymine	CH ₃	O-acyl	Cl	О	2-Fluoro-8-methyladenine	Br	Н
CH₃ O-acyl CI O 2-Amino-8-methylhypoxanthine Br H CH₃ O-acyl CI O 2-N-acetyl-8-methylguanine Br H CH₃ O-acyl CI O 6-N-acetyl-8-methylgosine Br H CH₃ O-acyl CI O 6-N-acetyl-5-fluoro-8-methyladenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-mino-8-methyladenine Br H CH₃ O-acyl CI O 6-Methyltymine Br O-amino acid CH₃ O-acyl CI O 6-Methyltymaine Br O-amino acid CH₃ O-acyl CI O 8-Methyltypoxanthine <	CH ₃	O-acyl	Cl	О	2-Fluoro-8-methylhypoxanthine	Br	Н
CH₃ O-acyl CI O 2-N-acetyl-8-methylguanine Br H CH₃ O-acyl CI O 4-N-acetyl-8-methylgdenine Br H CH₃ O-acyl CI O 4-N-acetyl-8-methylgdenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-minor-8-methylgdenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-mino-8-methylgdenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-mino-8-methylgdenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-mino-8-methylgdenine Br H CH₃ O-acyl CI O 6-Methyltymine Br H CH₃ O-acyl CI O 6-Methyltymonanthine Br O-amino acid CH₃ O-acyl CI O 8-Methylguanine Br O-amino acid CH₃ O-acyl CI O 8-Methylgyposanthine Br <t< td=""><td>CH₃</td><td>O-acyl</td><td>Cl</td><td>О</td><td>2-Amino-8-methyladenine</td><td>Br</td><td>Н</td></t<>	CH ₃	O-acyl	Cl	О	2-Amino-8-methyladenine	Br	Н
CH₃ O-acyl CI O 2-N-acetyl-8-methylguanine Br H CH₃ O-acyl CI O 4-N-acetyl-8-methylguanine Br H CH₃ O-acyl CI O 4-N-acetyl-8-methylguanine Br H CH₃ O-acyl CI O 4-N-acetyl-5-fluoro-8-methylguanine Br H CH₃ O-acyl CI O 6-N-acetyl-2-fluoro-8-methylguanine Br H CH₃ O-acyl CI O 6-N-acetyl-2-mino-8-methylguanine Br H CH₃ O-acyl CI O 6-N-acetyl-2-mino-8-methylguanine Br H CH₃ O-acyl CI O 6-Methyltymine Br O-amino acid CH₃ O-acyl CI O 6-Methyltymine Br O-amino acid CH₃ O-acyl CI O 8-Methylguanine Br O-amino acid CH₃ O-acyl CI O 8-Methylguanine Br	CH ₃	O-acyl	Cl	0	2-Amino-8-methylhypoxanthine	Br	H
CH₃ O-acyl CI O 6-N-acetyl-8-methyladenine Br H CH₃ O-acyl CI O 4-N-acetyl-5-fluoro-8-methyladenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine Br H CH₃ O-acyl CI O 2-N-acetylamino-8-methyladenine Br H CH₃ O-acyl CI O 6-Methylthymine Br O-amino acid CH₃ O-acyl CI O 6-Methylthymine Br O-amino acid CH₃ O-acyl CI O 6-Methylthymine Br O-amino acid CH₃ O-acyl CI O 8-Methylguanine Br O-amino acid CH₃ O-acyl CI O 5-Fluoro-6-Methyltyctosine	CH ₃	O-acyl	CĨ	0		Br	Н
CH₃ O-acyl CI O 6-N-acetyl-8-methyladenine Br H CH₃ O-acyl CI O 4-N-acetyl-5-fluoro-8-methyladenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine Br H CH₃ O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine Br H CH₃ O-acyl CI O 2-N-acetylamino-8-methyladenine Br H CH₃ O-acyl CI O 6-Methylthymine Br O-amino acid CH₃ O-acyl CI O 6-Methylthymine Br O-amino acid CH₃ O-acyl CI O 6-Methyltyuracii Br O-amino acid CH₃ O-acyl CI O 8-Methyltydenine Br O-amino acid CH₃ O-acyl CI O 5-Fluoro-6-Methyltyracii	CH ₃	O-acyl	Cl	0	4-N-acetyl-8-methylcytosine	Br	Н
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CH3O-acylClO8-MethylguanineClHCH3O-acylClO6-MethylcytosineClHCH3O-acylClO8-MethyladenineClHCH3O-acylClO8-MethylhypoxanthineClHCH3O-acylClO5-Fluoro-6-MethyluracilClHCH3O-acylClO5-Fluoro-6-MethylcytosineClHCH3O-acylClO2-Fluoro-8-methyladenineClHCH3O-acylClO2-Fluoro-8-methylhypoxanthineClHCH3O-acylClO2-Amino-8-methylhypoxanthineClHCH3O-acylClO2-N-acetyl-8-methylguanineClHCH3O-acylClO4-N-acetyl-8-methylcytosineClHCH3O-acylClO6-N-acetyl-8-methyladenineClHCH3O-acylClO6-N-acetyl-8-methyladenineClHCH3O-acylClO4-N-acetyl-5-fluoro-8-methylcytosineClH	CH ₃	O-acyl	Cl	O		Cl	H
CH3O-acylCIO6-MethylcytosineCIHCH3O-acylCIO8-MethyladenineCIHCH3O-acylCIO8-MethylhypoxanthineCIHCH3O-acylCIO5-Fluoro-6-MethyluracilCIHCH3O-acylCIO2-Fluoro-6-MethylcytosineCIHCH3O-acylCIO2-Fluoro-8-methyladenineCIHCH3O-acylCIO2-Amino-8-methylhypoxanthineCIHCH3O-acylCIO2-Amino-8-methylhypoxanthineCIHCH3O-acylCIO2-N-acetyl-8-methylguanineCIHCH3O-acylCIO4-N-acetyl-8-methylcytosineCIHCH3O-acylCIO6-N-acetyl-8-methyladenineCIHCH3O-acylCIO6-N-acetyl-8-methyladenineCIHCH3O-acylCIO4-N-acetyl-5-fluoro-8-methylcytosineCIH	CH ₃	O-acyl	Cl	О	8-Methylguanine	Cl	Н
CH3O-acylCIO8-MethyladenineCIHCH3O-acylCIO8-MethylhypoxanthineCIHCH3O-acylCIO5-Fluoro-6-MethyluracilCIHCH3O-acylCIO5-Fluoro-6-MethylcytosineCIHCH3O-acylCIO2-Fluoro-8-methyladenineCIHCH3O-acylCIO2-Fluoro-8-methylhypoxanthineCIHCH3O-acylCIO2-Amino-8-methylhypoxanthineCIHCH3O-acylCIO2-N-acetyl-8-methylguanineCIHCH3O-acylCIO4-N-acetyl-8-methylcytosineCIHCH3O-acylCIO6-N-acetyl-8-methyladenineCIHCH3O-acylCIO6-N-acetyl-8-methyladenineCIHCH3O-acylCIO6-N-acetyl-8-methyladenineCIHCH3O-acylCIO4-N-acetyl-5-fluoro-8-methylcytosineCIH				O	†***		
CH3O-acylCIO8-MethylhypoxanthineCIHCH3O-acylCIO5-Fluoro-6-MethyluracilCIHCH3O-acylCIO5-Fluoro-6-MethylcytosineCIHCH3O-acylCIO2-Fluoro-8-methyladenineCIHCH3O-acylCIO2-Fluoro-8-methylhypoxanthineCIHCH3O-acylCIO2-Amino-8-methyladenineCIHCH3O-acylCIO2-N-acetyl-8-methylguanineCIHCH3O-acylCIO4-N-acetyl-8-methylcytosineCIHCH3O-acylCIO6-N-acetyl-8-methyladenineCIHCH3O-acylCIO6-N-acetyl-8-methyladenineCIHCH3O-acylCIO6-N-acetyl-8-methylcytosineCIHCH3O-acylCIO4-N-acetyl-5-fluoro-8-methylcytosineCIH	CH ₃	O-acyl	Cl	О		Cl	H
CH3O-acylCIO5-Fluoro-6-MethylcytosineCIHCH3O-acylCIO2-Fluoro-8-methyladenineCIHCH3O-acylCIO2-Fluoro-8-methylhypoxanthineCIHCH3O-acylCIO2-Amino-8-methyladenineCIHCH3O-acylCIO2-Amino-8-methylhypoxanthineCIHCH3O-acylCIO2-N-acetyl-8-methylguanineCIHCH3O-acylCIO4-N-acetyl-8-methylcytosineCIHCH3O-acylCIO6-N-acetyl-8-methyladenineCIHCH3O-acylCIO4-N-acetyl-5-fluoro-8-methylcytosineCIH	CH ₃	O-acyl	Cl	О	8-Methylhypoxanthine	CI	H
CH3O-acylCIO2-Fluoro-8-methyladenineCIHCH3O-acylCIO2-Fluoro-8-methylhypoxanthineCIHCH3O-acylCIO2-Amino-8-methyladenineCIHCH3O-acylCIO2-Amino-8-methylhypoxanthineCIHCH3O-acylCIO2-N-acetyl-8-methylguanineCIHCH3O-acylCIO4-N-acetyl-8-methylcytosineCIHCH3O-acylCIO6-N-acetyl-8-methyladenineCIHCH3O-acylCIO4-N-acetyl-5-fluoro-8-methylcytosineCIH	CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methyluracil	Cl	Н
CH3O-acylCIO2-Fluoro-8-methyladenineCIHCH3O-acylCIO2-Fluoro-8-methylhypoxanthineCIHCH3O-acylCIO2-Amino-8-methyladenineCIHCH3O-acylCIO2-Amino-8-methylhypoxanthineCIHCH3O-acylCIO2-N-acetyl-8-methylguanineCIHCH3O-acylCIO4-N-acetyl-8-methylcytosineCIHCH3O-acylCIO6-N-acetyl-8-methyladenineCIHCH3O-acylCIO4-N-acetyl-5-fluoro-8-methylcytosineCIH			Cl	О			H
CH3O-acylCIO2-Fluoro-8-methylhypoxanthineCIHCH3O-acylCIO2-Amino-8-methyladenineCIHCH3O-acylCIO2-Amino-8-methylhypoxanthineCIHCH3O-acylCIO2-N-acetyl-8-methylguanineCIHCH3O-acylCIO4-N-acetyl-8-methylcytosineCIHCH3O-acylCIO6-N-acetyl-8-methyladenineCIHCH3O-acylCIO4-N-acetyl-5-fluoro-8-methylcytosineCIH			Ci	О		Cl	
CH3O-acylCIO2-Amino-8-methyladenineCIHCH3O-acylCIO2-Amino-8-methylhypoxanthineCIHCH3O-acylCIO2-N-acetyl-8-methylguanineCIHCH3O-acylCIO4-N-acetyl-8-methylcytosineCIHCH3O-acylCIO6-N-acetyl-8-methyladenineCIHCH3O-acylCIO4-N-acetyl-5-fluoro-8-methylcytosineCIH			Cl	О		Cl	Н
CH3O-acylClO2-Amino-8-methylhypoxanthineClHCH3O-acylClO2-N-acetyl-8-methylguanineClHCH3O-acylClO4-N-acetyl-8-methylcytosineClHCH3O-acylClO6-N-acetyl-8-methyladenineClHCH3O-acylClO4-N-acetyl-5-fluoro-8-methylcytosineClH		——····					
CH3O-acylClO2-N-acetyl-8-methylguanineClHCH3O-acylClO4-N-acetyl-8-methylcytosineClHCH3O-acylClO6-N-acetyl-8-methyladenineClHCH3O-acylClO4-N-acetyl-5-fluoro-8-methylcytosineClH		 	CI	О		4	Н
CH3O-acylClO4-N-acetyl-8-methylcytosineClHCH3O-acylClO6-N-acetyl-8-methyladenineClHCH3O-acylClO4-N-acetyl-5-fluoro-8-methylcytosineClH				О			
CH ₃ O-acyl Cl O 6-N-acetyl-8-methyladenine Cl H CH ₃ O-acyl Cl O 4-N-acetyl-5-fluoro-8-methylcytosine Cl H							
CH ₃ O-acyl Cl O 4-N-acetyl-5-fluoro-8-methylcytosine Cl H			Cl	О			
	,						
g	CH ₃	O-acyl	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Çl	

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	Н
CH ₃	O-acyl	Cl	О	2-N-acetylamino-8-methyladenine	Cl	Н
CH ₃	O-acyl	Cl	0	2-N-acetylamino-8-	Cl	Н
]	-			methylhypoxanthine	ļ	
CH ₃	O-acyl	Cl	0	6-Methylthymine	Cl	O-amino acid
CH ₃	O-acyl	Cl	О	6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	Cl	O	8-Methylguanine	CI	O-amino acid
CH ₃	O-acyl	Cl	О	6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Cl	О	8-Methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	0	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Cl	0	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Cl	0	2-Fluoro-8-methyladenine	CI	O-amino acid
CH ₃	O-acyl	CÎ	0	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Cl	0	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	О	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Cl	0	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-acyl	CÌ	О	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Cl	О	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	CI	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	О	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Cl	0	2-N-acetylamino-8-	CI	O-amino acid
				methylhypoxanthine	1	
CH ₃	O-acyl	Cl	О	6-Methylthymine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	Cl	O	8-Methylguanine	Cl	O-acyl
CH ₃	O-acyl	Cl	О	6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Cl	О	8-Methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	О	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	C1	O-acyl
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Cl -	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	О	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Cl	О	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Cl	О	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	C1	O.	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	О	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	Cl	О	2-N-acetylamino-8-	Cl	O-acyl
				methylhypoxanthine		
CH ₃	O-acyl_	Cl	O	6-Methylthymine	Cl	OH

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	CI	О	6-Methyluracil	Cl	OH
CH ₃	O-acyl	CĪ	О	8-Methylguanine	Cl	ОН
CH ₃	O-acyl	Cl	О	6-Methylcytosine	Cl	ОН
CH ₃	O-acyl	Cl	0	8-Methyladenine	Cl	ОН
CH ₃	O-acyl	Cl	О	8-Methylhypoxanthine	Cl	ОН
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Cl	ОН
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	OH .
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methylhypoxanthine	Cl	ОН
CH ₃	O-acyl	Cl	О	2-Amino-8-methyladenine	Cl	OH
CH ₃	O-acyl	Cl	О	2-Amino-8-methylhypoxanthine	Cl	ОН
CH ₃	O-acyl	Cl	О	2-N-acetyl-8-methylguanine	Cl_	OH
CH ₃	O-acyl	Cl	О	4-N-acetyl-8-methylcytosine	Cl	OH
CH ₃	O-acyl	Cl	О	6-N-acetyl-8-methyladenine	Cl	ОН
CH ₃	O-acyl	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	: Cl	OH
CH ₃	O-acyl	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CH ₃	O-acyl	Cl	О	2-N-acetylamino-8-methyladenine	Cl	ОН
CH ₃	O-acyl	Cl	О	2-N-acetylamino-8-	Cl	ОН
			ļ <u>.</u>	methylhypoxanthine		
CH ₃	O-acyl	Cl	O	6-Methylthymine	H	Н
CH ₃	O-acyl	Cl	O	6-Methyluracil	Н	Н
CH ₃	O-acyl	Cl	О	8-Methylguanine	H	Н
CH ₃	O-acyl	CI	0	6-Methylcytosine	H	Н
CH ₃	O-acyl	Čl	O	8-Methyladenine	Н	Н
CH ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	Н
CH ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Η .	Н
CH ₃	O-acyl	Cl	0	5-Fluoro-6-Methylcytosine	Н	Н
CH ₃	O-acyl	Cl	.0	2-Fluoro-8-methyladenine	H	H
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	H	Н
CH ₃	O-acyl	Cl	0	2-Amino-8-methyladenine	H	Н
CH ₃	O-acyl	Cl	0	2-Amino-8-methylhypoxanthine	H	H
CH ₃	O-acyl	Cl	0	2-N-acetyl-8-methylguanine	H	H
CH ₃	O-acyl	Cl	0	4-N-acetyl-8-methylcytosine	H	H
CH ₃	O-acyl	Cl	0	6-N-acetyl-8-methyladenine	H	Н
CH ₃	O-acyl	Cl	0	4-N-acetyl-5-fluoro-8-methylcytosine	H_	H
CH ₃	O-acyl	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CH ₃	O-acyl	Cl	0	6-N-acetyl-2-amino-8-methyladenine	H	Н
CH ₃	O-acyl	Cl	0	2-N-acetylamino-8-methyladenine	H	Н
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-	Н	Н
CIT	0 1	Ci		methylhypoxanthine	1	
CH ₃	O-acyl	Cl	0	6-Methylthymine	H	O-amino acid
CH ₃	O-acyl	Cl	0	6-Methyluracil	H	O-amino acid
CH ₃	O-acyl	Cl	0	8-Methylguanine	H	O-amino acid
CH ₃	O-acyl	Cl	0	6-Methylcytosine	H	O-amino acid
CH ₃	O-acyl	Cl	0	8-Methyladenine	H	O-amino acid
CH ₃	O-acyl	Cl	О	8-Methylhypoxanthine	H	O-amino acid

\mathbb{R}^6	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methyluracil	Н	O-amino acid
CH ₃	O-acyl	Cl	0	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	Cl	0	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	Cl	О	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-acyl	CI	О	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	O-acyl	Cl	О	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CH ₃	O-acyl	Cl	0	6-N-acetyl-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CH ₃	O-acyl	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	.Cl	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	Cl	О	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	Cl	O	2-N-acetylamino-8-	Н	O-amino acid
	•			methylhypoxanthine		
CH ₃	O-acyl	Cl	О	6-Methylthymine	Н	O-acyl
CH ₃	O-acyl	·Cl	О	6-Methyluracil	Н	O-acyl
CH ₃	O-acyl	Cl	О	8-Methylguanine	Н	O-acyl
CH ₃	O-acyl	Cl	0	6-Methylcytosine	H	O-acyl
CH ₃	O-acyl	Cl	О	8-Methyladenine	Н	O-acyl
CH ₃	O-acyl	Cl	О	8-Methylhypoxanthine	H	O-acyl
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methylcytosine	Н	O-acyl
CH ₃	O-acyl	CI	0	2-Fluoro-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CH ₃	O-acyl	Cl	0	2-Amino-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	CI	О	2-Amino-8-methylhypoxanthine	Н	O-acyl
CH ₃	O-acyl	Cl	О	2-N-acetyl-8-methylguanine	Н	O-acyl
CH ₃	O-acyl	Cl	О	4-N-acetyl-8-methylcytosine	Н	O-acyl
CH ₃	O-acyl	Cl	О	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-acyl	CI	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CH ₃	O-acyl	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Cl	О	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Cl	О	2-N-acetylamino-8-	Н	O-acyl
				methylhypoxanthine		
CH ₃	O-acyl	Cl	О	6-Methylthymine	Н	ОН
CH ₃	O-acyl	CI	О	6-Methyluracil	Н	ОН
CH ₃	O-acyl	Cl	О	8-Methylguanine	Н	OH .
CH ₃	O-acyl	Cl	O	6-Methylcytosine	Н	ОН
CH ₃	O-acyl	CI	O	8-Methyladenine	Н	ОН
CH ₃	O-acyl	Cl	О	8-Methylhypoxanthine	Н	ОН
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methyluracil	Н	ОН
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methylcytosine	Н	ОН
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methyladenine	Н	ОН
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methylhypoxanthine	Н	ОН
CH ₃	O-acyl	Cl	О	2-Amino-8-methyladenine	Н	OH

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Cl	О	2-Amino-8-methylhypoxanthine	Н	OH
CH ₃	O-acyl	Cl	О	2-N-acetyl-8-methylguanine	H	ОН
CH ₃	O-acyl	Cl	О	4-N-acetyl-8-methylcytosine	Н	OH
CH ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Н	OH
CH ₃	O-acyl	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	OH
CH ₃	O-acyl	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	ОН
CH ₃	O-acyl	CI	0	6-N-acetyl-2-amino-8-methyladenine	Н	OH
CH ₃	O-acyl	Cl	0	2-N-acetylamino-8-methyladenine	Н	ОН
CH ₃	O-acyl	Cl	0	2-N-acetylamino-8-	Н	ОН
!		ļ)	methylhypoxanthine	j	
CH ₃	O-acyl	Cl	О	6-Methylthymine	ОН	Н
CH ₃	O-acyl	Cl	О	6-Methyluracil	ОН	Н
CH ₃	O-acyl	Cl	0	8-Methylguanine	OH	Н
CH ₃	O-acyl .	Cl	О	6-Methylcytosine	OH	Н
CH ₃	O-acyl	Cl	О	8-Methyladenine	OH	Н
CH ₃	O-acyl	Cl	О	8-Methylhypoxanthine	ОН	Н
CH ₃	O-acyl	Cl	0	5-Fluoro-6-Methyluracil	ОН	Н
CH ₃	O-acyl	Cl	О	5-Fluoro-6-Methylcytosine	ОН	Н
CH ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	ОН	Н
CH ₃	O-acyl	Cl	О	2-Fluoro-8-methylhypoxanthine	ОН	Н
CH ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	ОН	H
CH ₃	O-acyl	Cl	О	2-Amino-8-methylhypoxanthine	ОН	Н
CH ₃	O-acyl	Cl	0	2-N-acetyl-8-methylguanine	ОН	Н
CH ₃	O-acyl	CI	0	4-N-acetyl-8-methylcytosine	ОН	Н
CH ₃	O-acyl	Cl	О	6-N-acetyl-8-methyladenine	ОН	Н
CH ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	ОН	Н
CH ₃	O-acyl	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	ОН	Н
CH ₃	O-acyl	Cl	0	6-N-acetyl-2-amino-8-methyladenine	ОН	Н
CH ₃	O-acyl	Cl	0	2-N-acetylamino-8-methyladenine	ОН	Н
CH ₃	O-acyl	Cl	О	2-N-acetylamino-8-	OH	Н
İ	-	ĺ		methylhypoxanthine	ĺ	ĺ
CH ₃	O-acyl	Н	О	6-Methylthymine	F	Н
CH ₃	O-acyl	Н	О	6-Methyluracil	F	Н
CH ₃	O-acyl	Н	0	8-Methylguanine	F	Н
CH ₃	O-acyl	Н	0	6-Methylcytosine	F	H .
CH ₃	O-acyl	Н	О	8-Methyladenine	F	Н
CH ₃	O-acyl	Н	О	8-Methylhypoxanthine	F	Н
CH ₃	O-acyl	Н	О	5-Fluoro-6-Methyluracil	F	Н
CH ₃	O-acyl	Н	О	5-Fluoro-6-Methylcytosine	F	Н
CH ₃	O-acyl	Н	О	2-Fluoro-8-methyladenine	F	Н
CH ₃	O-acyl	Н	О	2-Fluoro-8-methylhypoxanthine	F	Н
CH ₃	O-acyl	Н	O	2-Amino-8-methyladenine	F	Н
CH ₃	O-acyl	Н	0	2-Amino-8-methylhypoxanthine	F	Н
CH ₃	O-acyl	Н	0	2-N-acetyl-8-methylguanine	F	H
CH ₃	O-acyl	Ĥ	О	4-N-acetyl-8-methylcytosine	F	Н
CH ₃	O-acyl	Н	O	6-N-acetyl-8-methyladenine	F	Н
CH ₃	O-acyl	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	F	Н

nino acid
nino acid
nino acid
nino acid
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mino acid
nino acid
mino acid
nino acid
nino acid
mino acid
nino acid
mino acid
cyl
cyl
-

\mathbb{R}^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Н	О	6-Methylthymine	F	OH
CH ₃	O-acyl	Н	0	6-Methyluracil	F	OH
CH ₃	O-acyl	Н	0	8-Methylguanine	F	OH
CH ₃	O-acyl	Н	0	6-Methylcytosine	F	ОН
CH ₃	O-acyl	Н	О	8-Methyladenine	F	ОН
CH ₃	O-acyl	Н	О	8-Methylhypoxanthine	F	OH
CH ₃	O-acyl	Н	O	5-Fluoro-6-Methyluracil	F	ОН
CH ₃	O-acyl	Н	О	5-Fluoro-6-Methylcytosine	F	ОН
CH ₃	O-acyl	Н	O	2-Fluoro-8-methyladenine	F	ОН
CH ₃	O-acyl	Н	O	2-Fluoro-8-methylhypoxanthine	F	ОН
CH ₃	O-acyl	Н	О	2-Amino-8-methyladenine	F	OH
CH ₃	O-acyl	Н	O	2-Amino-8-methylhypoxanthine	F	ОН
CH ₃	O-acyl	Н	0	2-N-acetyl-8-methylguanine	F	ОН
CH ₃	O-acyl	Н	O	4-N-acetyl-8-methylcytosine	F	ОН
CH ₃	O-acyl	H.	O	6-N-acetyl-8-methyladenine	F	ОН
CH ₃	O-acyl	H	ō	4-N-acetyl-5-fluoro-8-methylcytosine	F	ОН
CH ₃	O-acyl	H	o	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CH ₃	O-acyl	Н	O	6-N-acetyl-2-amino-8-methyladenine	F	ОН
CH ₃	O-acyl	H	ō	2-N-acetylamino-8-methyladenine	F	OH
CH ₃	O-acyl	H	ō	2-N-acetylamino-8-	F	OH
	0 40)1			methylhypoxanthine	1	
CH ₃	O-acyl	H	О	6-Methylthymine	Br	H
CH ₃	O-acyl	Н	O	6-Methyluracil	Br	H
CH ₃	O-acyl	H	o	8-Methylguanine	Br	Н
CH ₃	O-acyl	H	Ō	6-Methylcytosine	Br	H
CH ₃	O-acyl	Н	O	8-Methyladenine	Br	H
CH ₃	O-acyl	Н	O	8-Methylhypoxanthine	Br	Н
CH ₃	O-acyl	Н	O	5-Fluoro-6-Methyluracil	Br	Н
CH ₃	O-acyl	Н	O	5-Fluoro-6-Methylcytosine	Br	Н
CH ₃	O-acyl	Н	О	2-Fluoro-8-methyladenine	Br	Н
CH ₃	O-acyl	Н	О	2-Fluoro-8-methylhypoxanthine	Br	Н
CH ₃	O-acyl	Н	О	2-Amino-8-methyladenine	Br	Н
CH ₃	O-acyl	Н	0	2-Amino-8-methylhypoxanthine	Br	Н
CH ₃	O-acyl	Н	0	2-N-acetyl-8-methylguanine	Br	Н
CH ₃	O-acyl	H	0	4-N-acetyl-8-methylcytosine	Br	H
CH ₃	O-acyl	Н	O	6-N-acetyl-8-methyladenine	Br	Н
CH ₃	O-acyl	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	Н
CH ₃	O-acyl	H	Ō	6-N-acetyl-2-fluoro-8-methyladenine	Br	Н
CH ₃	O-acyl	Н	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CH ₃	O-acyl	Н	Ō	2-N-acetylamino-8-methyladenine	Br	Н
CH ₃	O-acyl	Н	Ō	2-N-acetylamino-8-	Br	Н
		-		methylhypoxanthine		
CH ₂	O-acvl	Н	О		Br	O-amino acid
					Br	O-amino acid
					Br	O-amino acid
						O-amino acid
						O-amino acid
CH ₃ CH ₃ CH ₃ CH ₃ CH ₃	O-acyl O-acyl O-acyl O-acyl O-acyl	H H H H	0 0 0 0 0	6-Methylthymine 6-Methyluracil 8-Methylguanine 6-Methylcytosine 8-Methyladenine		O-amino ac O-amino ac O-amino ac

R ⁶	R^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	H	0	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Н	О	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-acyl	Н	0	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-acyl	Н	О	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	H	0	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	H	О	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Н	0	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-acyl	Н	О	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-acyl	H	Ö	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-acyl	H	0	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	H	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-acyl	H	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Н	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Н	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-acyl	Н	О	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine		
CH ₃	O-acyl	Н	О	6-Methylthymine	Br	O-acyl
CH ₃	O-acyl	Н	О	6-Methyluracil	Br	O-acyl
CH ₃	O-acyl	Н	О	8-Methylguanine	Br	O-acyl
CH ₃	O-acyl	Н	O	6-Methylcytosine	Br	O-acyl
CH ₃	O-acyl	Н	О	8-Methyladenine	Br	O-acyl
CH ₃	O-acyl	Н	О	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	Н	0	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-acyl	Н	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-acyl	H	0	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Н	О	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	Н	Ó	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Н	О	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-acyl	Н	О	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	O-acyl	Н	О	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-acyl	Н	0	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-acyl	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Н	0	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Н	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-acyl	Н	0	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine		
CH ₃	O-acyl	Н	О	6-Methylthymine	Br	ОН
CH ₃	O-acyl	H	0	6-Methyluracil	Br	OH
CH ₃	O-acyl	Н	О	8-Methylguanine	Br	OH
CH ₃	O-acyl	Н	0	6-Methylcytosine	Br	ОН
CH ₃	O-acyl	Н	О	8-Methyladenine	Br	ОН
CH ₃	O-acyl	Н	О	8-Methylhypoxanthine	Br	ОН
CH ₃	O-acyl	Н	0	5-Fluoro-6-Methyluracil	Br	ОН
CH ₃	O-acyl	Н	О	5-Fluoro-6-Methylcytosine	Br	ОН
CH ₃	O-acyl	Н	О	2-Fluoro-8-methyladenine	Br	ОН
CH ₃	O-acyl	Н	0	2-Fluoro-8-methylhypoxanthine	Br	ОН

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Н	О	2-Amino-8-methyladenine	Вг	OH
CH ₃	O-acyl	Н	О	2-Amino-8-methylhypoxanthine	Br	OH
CH ₃	O-acyl	H	О	2-N-acetyl-8-methylguanine	Br	ОН
CH ₃	O-acyl	H	О	4-N-acetyl-8-methylcytosine	Br	OH
CH ₃	O-acyl	Н	0	6-N-acetyl-8-methyladenine	Br	ОН
CH ₃	O-acyl	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	Вг	OH
CH ₃	O-acyl	Н	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CH ₃	O-acyl	Н	O	6-N-acetyl-2-amino-8-methyladenine	Br	ОН
CH ₃	O-acyl	Н	O	2-N-acetylamino-8-methyladenine	Br	OH
CH ₃	O-acyl	Н	O	2-N-acetylamino-8-	Br	ОН
				methylhypoxanthine		
CH ₃	O-acyl	Н	О	6-Methylthymine	CI	Н
CH ₃	O-acyl	Н	O	6-Methyluracil	Cl	Н
CH ₃	O-acyl	H	0	8-Methylguanine	Cl	Н
CH ₃	O-acyl	Н	0	6-Methylcytosine	Cl	Н
CH ₃	O-acyl	Н	0	8-Methyladenine	CI	H
CH ₃	O-acyl	Н	O	8-Methylhypoxanthine	CI	Н
CH ₃	O-acyl	Н	Ō	5-Fluoro-6-Methyluracil	Cl	H
CH ₃	O-acyl	H	O.	5-Fluoro-6-Methylcytosine	Cl	Н
CH ₃	O-acyl	Н	O	2-Fluoro-8-methyladenine	Cl	Н
CH ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	Cl	Н
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	Cl	H
CH ₃	O-acyl	Н	o	2-Amino-8-methylhypoxanthine	Cl	Н
CH ₃	O-acyl	H	Ö	2-N-acetyl-8-methylguanine	CI	H
CH ₃	O-acyl	Н	ō	4-N-acetyl-8-methylcytosine	Cl	H
CH ₃	O-acyl	H	ō	6-N-acetyl-8-methyladenine	Cl	Н
CH ₃	O-acyl	Н	o	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CH ₃	O-acyl	H	ō	6-N-acetyl-2-fluoro-8-methyladenine	Cl	Н
CH ₃	O-acyl	Н	o	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CH ₃	O-acyl	H	ō	2-N-acetylamino-8-methyladenine	Cl	Н
CH ₃	O-acyl	H	ŏ	2-N-acetylamino-8-	Cl	Н
	0 40)!	**		methylhypoxanthine	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
CH ₃	O-acyl	Н	O	6-Methylthymine	Cl	O-amino acid
CH ₃	O-acyl	H	o	6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	H	o	8-Methylguanine	Cl	O-amino acid
CH ₃	O-acyl	Н	ō	6-Methylcytosine	CI	O-amino acid
CH ₃	O-acyl	H	o	8-Methyladenine	Cl	O-amino acid
CH ₃	O-acyl	H	o	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	H	0	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-acyl	H	0	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	H	0	2-Fluoro-8-methyladenine	CI	O-amino acid
CH ₃	O-acyl	H	0	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	H	0	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Н	0	2-Amino-8-methyladenine 2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-acyl	Н	0	2-N-acetyl-8-methylguanine	+	
	—— - ——				Cl	O-amino acid
CH ₃	O-acyl	H	0	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	CI_	O-amino acid

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-acyl	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-acyl	Н	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Н	0	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Н	0	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-acyl	Н	О	2-N-acetylamino-8-	Cl	O-amino acid
1				methylhypoxanthine		
CH ₃	O-acyl	Н	0	6-Methylthymine	CI	O-acyl
CH ₃	O-acyl	Н	0	6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	Н	0	8-Methylguanine	Cl	O-acyl
CH ₃	O-acyl	H	О	6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	Н	О	8-Methyladenine	Cl	O-acyl
CH ₃	O-acyl	Н	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	Н	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-acyl	Н	0	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	H	ō	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	H	o	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	H	Ō	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-acyl	H	o	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-acyl	H	o	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-acyl	H	o	6-N-acetyl-8-methyladenine	CI	O-acyl
CH ₃	O-acyl	H	o	4-N-acetyl-5-fluoro-8-methylcytosine	CI	O-acyl
CH ₃	O-acyl	H	o	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	H	o	6-N-acetyl-2-amino-8-methyladenine	CI	O-acyl
CH ₃	O-acyl	Н	$\frac{0}{0}$	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-acyl	H	o	2-N-acetylamino-8-	Cl	O-acyl
1 0113		**		methylhypoxanthine		
CH ₃	O-acyl	Н	o	6-Methylthymine	Cl	ОН
CH ₃	O-acyl	H	ŏ	6-Methyluracil	Cl	OH
CH ₃	O-acyl	H	O	8-Methylguanine	Cl	OH
CH ₃	O-acyl	H	Ŏ	6-Methylcytosine	Cl	ОН
CH ₃	O-acyl	H	o	8-Methyladenine	Cl	OH
CH ₃	O-acyl	H	o	8-Methylhypoxanthine	CI	OH
CH ₃	O-acyl	H	o	5-Fluoro-6-Methyluracil	Cl	OH
CH ₃	O-acyl	H	ō	5-Fluoro-6-Methylcytosine	Cl	OH
CH ₃	O-acyl	H	o	2-Fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	H	$\stackrel{\circ}{ _0}$	2-Fluoro-8-methylhypoxanthine	-Cl	ОН
CH ₃	O-acyl	H	o	2-Amino-8-methyladenine	CI	OH ·
CH ₃	O-acyl	H	o	2-Amino-8-methylhypoxanthine	CI	ОН
CH ₃	O-acyl	Н	0	2-N-acetyl-8-methylguanine	Cl	OH
CH ₃	O-acyl	H	0	4-N-acetyl-8-methylcytosine	CI	OH
CH ₃	O-acyl	H	0	6-N-acetyl-8-methyladenine	Cl	OH
CH ₃	O-acyl	H	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	OH
CH ₃	O-acyl	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CH ₃	O-acyl	Н	0	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CH ₃		H	0	2-N-acetylamino-8-methyladenine	Cl	OH
	O-acyl		+	2-N-acetylamino-8-methyladenme	Cl	OH
CH ₃	O-acyl	H	<u>O</u>	2-1N-acctytammo-o-	TCI	ОП

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
				methylhypoxanthine	1	
CH ₃	O-acyl	Н	O	6-Methylthymine	Н	Н
CH ₃	O-acyl	Н	О	6-Methyluracil	Н	Н
CH ₃	O-acyl	Н	O	8-Methylguanine	Н	Н
CH ₃	O-acyl	H	О	6-Methylcytosine	Н	Н
CH ₃	O-acyl	Н	О	8-Methyladenine	H	Н
CH ₃	O-acyl	H	0	8-Methylhypoxanthine	Н	Н
CH ₃	O-acyl	Н	0	5-Fluoro-6-Methyluracil	H	Н
CH ₃	O-acyl	Н	O	5-Fluoro-6-Methylcytosine	Н	Н
CH ₃	O-acyl	Н	0	2-Fluoro-8-methyladenine	Н	Н
CH ₃	O-acyl	Н	0	2-Fluoro-8-methylhypoxanthine	H	Н
CH ₃	O-acyl	H	O	2-Amino-8-methyladenine	Н	Н
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Н	Н
CH ₃	O-acyl	H	o	2-N-acetyl-8-methylguanine	H	H
CH ₃	O-acyl	H	0	4-N-acetyl-8-methylcytosine	Н	Н
CH ₃	O-acyl	H	ō	6-N-acetyl-8-methyladenine	H	H
CH ₃	O-acyl	H	o	4-N-acetyl-5-fluoro-8-methylcytosine	H	Н
CH ₃	O-acyl	H	o	6-N-acetyl-2-fluoro-8-methyladenine	Н	Н
CH ₃	O-acyl	H	0	6-N-acetyl-2-amino-8-methyladenine	Н	Н
CH ₃	O-acyl	H	o	2-N-acetylamino-8-methyladenine	H	Н
CH ₃	O-acyl	H	0	2-N-acetylamino-8-	H	Н
	o dey!	**	~	methylhypoxanthine	**	
CH ₃	O-acyl	+H	0	6-Methylthymine	H	O-amino acid
CH ₃	O-acyl	H	o	6-Methyluracil	H	O-amino acid
CH ₃	O-acyl	H	O	8-Methylguanine	H	O-amino acid
CH ₃	O-acyl	H	Ō	6-Methylcytosine	H	O-amino acid
CH ₃	O-acyl	H	O	8-Methyladenine	H	O-amino acid
CH ₃	O-acyl	Н	Ō	8-Methylhypoxanthine	Н	O-amino acid
CH ₃	O-acyl	H	0	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	O-acyl	Н	0	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	O-acyl	Н	0	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	H	0	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-acyl	H	0	2-Amino-8-methyladenine	Н	O-amino acid
CH ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-acyl	Н	0	2-N-acetyl-8-methylguanine	Н	O-amino acid
CH ₃	O-acyl	Н	0	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CH ₃	O-acyl	H	Ō	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	Н	o	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	O-acyl	H	o	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	H	o	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	H	o	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	O-acyl	H	o	2-N-acetylamino-8-	H	O-amino acid
~113	""	1.		methylhypoxanthine	1	
CH ₃	O-acyl	H	$\frac{1}{0}$	6-Methylthymine	H	O-acyl
CH ₃	O-acyl	H	$\frac{1}{0}$	6-Methyluracil	H	O-acyl
CH ₃	O-acyl	H	$\frac{0}{0}$	8-Methylguanine	H	O-acyl
						+ · <u> </u>
CH ₃	O-acyl	Н	0	6-Methylcytosine	Н	O-acyl

R ⁶	R ⁷	R ⁸	X	Base	R^{10}	R ⁹
CH ₃	O-acyl	H	О	8-Methyladenine	Н	O-acyl
CH ₃	O-acyl	Н	0	8-Methylhypoxanthine	Н	O-acyl
CH ₃	O-acyl	Н	0	5-Fluoro-6-Methyluracil	Н	O-acyl
CH ₃	O-acyl	Н	О	5-Fluoro-6-Methylcytosine	Н	O-acyl
CH ₃	O-acyl	Н	0	2-Fluoro-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Н	0	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CH ₃	O-acyl	Н	0	2-Amino-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Н	O	2-Amino-8-methylhypoxanthine	Н	O-acyl
CH ₃	O-acyl	Н	0	2-N-acetyl-8-methylguanine	Н	O-acyl
CH ₃	O-acyl	Н	О	4-N-acetyl-8-methylcytosine	Н	O-acyl
CH ₃	O-acyl	Н	О	6-N-acetyl-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CH ₃	O-acyl	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Н	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	Н	O	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	O-acyl	H	O	2-N-acetylamino-8-	Н	O-acyl
		**		methylhypoxanthine		
CH ₃	O-acyl	Н	O	6-Methylthymine	Н	OH
CH ₃	O-acyl	H	O	6-Methyluracil	Н	OH
CH ₃	O-acyl	H	o	8-Methylguanine	H	ОН
CH ₃	O-acyl	H	o	6-Methylcytosine	H	ОН
CH ₃	O-acyl	H	ŏ	8-Methyladenine	Н	ОН
CH ₃	O-acyl	H	O	8-Methylhypoxanthine	H	OH
CH ₃	O-acyl	H	o	5-Fluoro-6-Methyluracil	H	ОН
CH ₃	O-acyl	Н	O	5-Fluoro-6-Methylcytosine	H	OH
CH ₃	O-acyl	H	O	2-Fluoro-8-methyladenine	Н	ОН
CH ₃	O-acyl	Н	O:	2-Fluoro-8-methylhypoxanthine	Н	ОН
CH ₃	O-acyl	Н	O	2-Amino-8-methyladenine	Н	OH
CH ₃	O-acyl	Н	O	2-Amino-8-methylhypoxanthine	Н	OH
CH ₃	O-acyl	Н	o	2-N-acetyl-8-methylguanine	Н	OH
CH ₃	O-acyl	Н	O	4-N-acetyl-8-methylcytosine	Н	ОН
CH ₃	O-acyl	Н	O	6-N-acetyl-8-methyladenine	Н	OH
CH ₃	O-acyl	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	Н	ОН
CH ₃	O-acyl	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	ОН
CH ₃	Ó-acyl	Н	0	6-N-acetyl-2-amino-8-methyladenine	Н	OH
CH ₃	O-acyl	Н	0	2-N-acetylamino-8-methyladenine	Н	ОН
CH ₃	O-acyl	H	O	2-N-acetylamino-8-	Н	ОН
0113				methylhypoxanthine		
CH ₃	O-acyl	H	O	6-Methylthymine	ОН	Н
CH ₃	O-acyl	H	Ö	6-Methyluracil	OH	H
CH ₃	O-acyl	H	o	8-Methylguanine	OH	H
CH ₃	O-acyl	H	o	6-Methylcytosine	OH	H
CH ₃	O-acyl	H	O	8-Methyladenine	OH	H
CH ₃	O-acyl	H	$\frac{1}{0}$	8-Methylhypoxanthine	OH	H
CH ₃	O-acyl	H	0	5-Fluoro-6-Methyluracil	OH	Н
CH ₃	O-acyl	H	0	5-Fluoro-6-Methylcytosine	OH	H
CH ₃	O-acyl	Н	0	2-Fluoro-8-methyladenine	OH	H
C113	U-acyi	111	<u> </u>	2-1 Iu010-0-metry adennie	1011	1 **

<u> </u>
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nino acid
nino acid
nino acid
nino acid
mino acid
nino acid
rrrrrr

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-	F	O-amino acid
İ	1		ĺ	methylhypoxanthine	1	1
CH ₃	O-amino acid	F	О	6-Methylthymine	F	O-acyl
CH ₃	O-amino acid	F	0	6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	F	0	8-Methylguanine	F	O-acyl
CH ₃	O-amino acid	F	О	6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	F	О	8-Methyladenine	F	O-acyl
CH ₃	O-amino acid	F	О	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	F	0	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	F	0	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	F	Ō	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	F	Ō	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	F	ō	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	F	Ō	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	F	ō	2-N-acetylamino-8-	F	O-acyl
		_		methylhypoxanthine	-	
CH ₃	O-amino acid	F	O	6-Methylthymine	F	ОН
CH ₃	O-amino acid	F	О	6-Methyluracil	F	ОН
CH ₃	O-amino acid	F	O	8-Methylguanine	F	ОН
CH ₃	O-amino acid	F	О	6-Methylcytosine	F	OH
CH ₃	O-amino acid	F	О	8-Methyladenine	F	ОН
CH ₃	O-amino acid	F	0	8-Methylhypoxanthine	F	ОН
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	F	ОН
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	OH
CH ₃	O-amino acid	F	ō	2-Fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	F	o	2-Fluoro-8-methylhypoxanthine	F	ОН
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	F	OH
CH ₃	O-amino acid	F	o	2-Amino-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	F	OH
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	OH
CH ₃	O-amino acid	F	0	6-N-acetyl-8-methyladenine	F	OH
CH ₃	O-amino acid	F	o	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CH ₃	O-amino acid	F	o	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	F	0	6-N-acetyl-2-amino-8-methyladenine	F	OH
CH ₃	O-amino acid	F	0	2-N-acetylamino-8-methyladenine	$\frac{1}{F}$	OH
C113	J-amino acid	L <u>t</u>		2-14-acctylanimo-o-methyladenme	T _{1.}	

\mathbb{R}^6	\mathbf{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-	F	OH .
ļ				methylhypoxanthine		
CH ₃	O-amino acid	F	О	6-Methylthymine	Br	Н
CH ₃	O-amino acid	F	,O	6-Methyluracil	Br	Н
CH ₃	O-amino acid	F	0	8-Methylguanine	Br	Н
CH ₃	O-amino acid	F	0	6-Methylcytosine	Br	Н
CH ₃	O-amino acid	F	0	8-Methyladenine	Br	Н
CH ₃	O-amino acid	F	О	8-Methylhypoxanthine	Br	Н
CH ₃	O-amino acid	F	0	5-Fluoro-6-Methyluracil	Br	Н
CH ₃	O-amino acid	F	0	5-Fluoro-6-Methylcytosine	Br	Н
CH ₃	O-amino acid	F	0	2-Fluoro-8-methyladenine	Br	Н
CH ₃	O-amino acid	F	0	2-Fluoro-8-methylhypoxanthine	Br	Н
CH ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Br	Н
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	Н
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	Н
CH ₃	O-amino acid	F	О	4-N-acetyl-8-methylcytosine	Br	H
CH ₃	O-amino acid	F	О	6-N-acetyl-8-methyladenine	Br	Н
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	Н
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	Н
CH ₃	O-amino acid	F	О	6-N-acetyl-2-amino-8-methyladenine	Br	Н
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	H
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-	Br	Н
				methylhypoxanthine		
CH ₃	O-amino acid	F	О	6-Methylthymine	Br	O-amino acid
CH ₃	O-amino acid	F	0	6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	F	O	8-Methylguanine	Br	O-amino acid
CH ₃	O-amino acid	F	0	6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	F	O	8-Methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	0	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	F	О	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	F	0	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	О	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	F	О	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-amino acid	F	О	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	F	0	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-	Br	O-amino acid
<u>L</u>		<u>L</u> .		methylhypoxanthine	\perp	
CH ₃	O-amino acid	F	О	6-Methylthymine	Br	O-acyl
CH ₃	O-amino acid	F	О	6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	F	О	8-Methylguanine	Br	O-acyl

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	F	О	6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	F	О	8-Methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	0	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	0	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-	Br	O-acyl
			!	methylhypoxanthine		
CH ₃	O-amino acid	F	0	6-Methylthymine	Br	ОН
CH ₃	O-amino acid	F	О	6-Methyluracil	Br	ОН
CH ₃	O-amino acid	F	O	8-Methylguanine	Br	ОН
CH ₃	O-amino acid	F	O	6-Methylcytosine	Br	ОН
CH ₃	O-amino acid	F	O	8-Methyladenine	Br	ОН
CH ₃	O-amino acid	F	О	8-Methylhypoxanthine	Br	OH
CH ₃	O-amino acid	F	Q	5-Fluoro-6-Methyluracil	Br	ОН
CH ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Br	OH
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Br	ОН
CH ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Br	ОН
CH ₃	O-amino acid	F	0	2-Amino-8-methylhypoxanthine	Br	ÓН
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	OH
CH ₃	O-amino acid	F	О	4-N-acetyl-8-methylcytosine	Br	ОН
CH ₃	O-amino acid	F	О	6-N-acetyl-8-methyladenine	Br	ОН
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	ОН
CH ₃	O-amino acid	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	F	0	6-N-acetyl-2-amino-8-methyladenine	Br	ОН
CH_3	O-amino acid	F	О	2-N-acetylamino-8-methyladenine	Br	OH
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-	Br	ОН
				methylhypoxanthine		
CH ₃	O-amino acid	F	0	6-Methylthymine	Cl	Н
CH ₃	O-amino acid	F	O	6-Methyluracil	Cl	H
CH ₃	O-amino acid	F	Ο.	8-Methylguanine	Cl	Н
CH ₃	O-amino acid	F	О	6-Methylcytosine	Cl	Н
CH ₃	O-amino acid	F	0	8-Methyladenine	Cl	Н
CH ₃	O-amino acid	F	О	8-Methylhypoxanthine	Cl	Н
CH ₃	O-amino acid	F	0	5-Fluoro-6-Methyluracil	Cl	Н
CH ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Cl	Н

\mathbb{R}^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	Н
CH ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	Cl	Н
CH ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Cl	Н
CH ₃	O-amino acid	F	О	2-Amino-8-methylhypoxanthine	Cl	Н
CH ₃	O-amino acid	F	О	2-N-acetyl-8-methylguanine	Cl	Н
CH ₃	O-amino acid	F	О	4-N-acetyl-8-methylcytosine	Cl	Н
CH ₃	O-amino acid	F	О	6-N-acetyl-8-methyladenine	Cl	Н
CH ₃	O-amino acid	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	Н
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	Н
CH ₃	O-amino acid	F	0	6-N-acetyl-2-amino-8-methyladenine	Cl	Н
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-methyladenine	Cl	H
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-	Cl	Н
				methylhypoxanthine		
CH ₃	O-amino acid	F	0	6-Methylthymine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	6-Methyluracil	CI	O-amino acid
CH ₃	O-amino acid	F	0	8-Methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	F	О	6-Methylcytosine	CI	O-amino acid
CH ₃	O-amino acid	F	O	8-Methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	О	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	F	o	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	F	О	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	o	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	F	О	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	F	.0	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	0	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	0	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-	Cl	O-amino acid
ļ				methylhypoxanthine	1	
CH ₃	O-amino acid	F	О	6-Methylthymine	Cl	O-acyl
CH ₃	O-amino acid	F	О	6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	F	О	8-Methylguanine	Cl	O-acyl
CH ₃	O-amino acid	F	О	6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	F	О	8-Methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	0	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	F	О	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Cl	O-acyl

R ⁶	R^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-	Cl	O-acyl
'				methylhypoxanthine		-
CH ₃	O-amino acid	F	О	6-Methylthymine	Cl	OH
CH ₃	O-amino acid	F	0	6-Methyluracil	Cl	ОН
CH ₃	O-amino acid	F	О	8-Methylguanine	Cl	ОН
CH ₃	O-amino acid	F	O	6-Methylcytosine	Cl	OH
CH ₃	O-amino acid	F	0	8-Methyladenine	Cl	OH
CH ₃	O-amino acid	F	0	8-Methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	F	О	5-Fluoro-6-Methyluracil	Cl	ОН
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	Cl	OH
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	CI	OH
CH ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	Cl	ОН
CH ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Cl	ОН
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	F	О	2-N-acetyl-8-methylguanine	Cl	ОН
CH ₃	O-amino acid	F	О	4-N-acetyl-8-methylcytosine	Cl	ОН
CH ₃	O-amino acid	F	0	6-N-acetyl-8-methyladenine	Cl	OH
CH ₃	O-amino acid	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	ОН
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	CI	OH
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	ОН
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-	Cl	ОН
			-	methylhypoxanthine		
CH ₃	O-amino acid	F	О	6-Methylthymine	Н	Н
CH ₃	O-amino acid	F	О	6-Methyluracil	Н	Н
CH ₃	O-amino acid	F	О	8-Methylguanine	Н	Н
CH ₃	O-amino acid	F	O	6-Methylcytosine	Н	H
CH ₃	O-amino acid	F	О	8-Methyladenine	Н	Н
CH ₃	O-amino acid	F	О	8-Methylhypoxanthine	Н	Н
CH ₃	O-amino acid	F	О	5-Fluoro-6-Methyluracil	Н	Н
CH ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	H	Н
CH ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Н	Н
CH ₃	O-amino acid	F	0	2-Fluoro-8-methylhypoxanthine	Н	Н
CH ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Н	Н
CH ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Н	Н
CH ₃	O-amino acid	F	О	2-N-acetyl-8-methylguanine	H	Н
CH ₃	O-amino acid	F	Ō	4-N-acetyl-8-methylcytosine	Н	Н
CH ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	H	Н
CH ₃	O-amino acid	F	Ō	4-N-acetyl-5-fluoro-8-methylcytosine	Н	Н
CH ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	Н
CH ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Н	Н

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-methyladenine	Н	Н
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-	Н	Н
				methylhypoxanthine		
CH ₃	O-amino acid	F	О	6-Methylthymine	H	O-amino acid
CH ₃	O-amino acid	F	0	6-Methyluracil	Н	O-amino acid
CH ₃	O-amino acid	F	0	8-Methylguanine	Н	O-amino acid
CH ₃	O-amino acid	F	О	6-Methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	F	0	8-Methyladenine	Н	O-amino acid
CH ₃	O-amino acid	F	О	8-Methylhypoxanthine	Н	O-amino acid
CH ₃	O-amino acid	F	О	5-Fluoro-6-Methyluracil	Н	O-amino acid
CH ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	F	0	2-Fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	F	0	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	F	О	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-amino acid	F	О	2-N-acetyl-8-methylguanine	Н	O-amino acid
CH ₃	O-amino acid	F	О	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	F	О	6-N-acetyl-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	F	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	F	0	2-N-acetylamino-8-	Н	O-amino acid
				methylhypoxanthine		
CH ₃	O-amino acid	F	О	6-Methylthymine	Н	O-acyl
CH ₃	O-amino acid	F	O	6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	F	0	8-Methylguanine	Н	O-acyl
CH ₃	O-amino acid	F	О	6-Methylcytosine	Н	O-acyl
CH ₃	O-amino acid	F	О	8-Methyladenine	Н	O-acyl
CH ₃	O-amino acid	F	O	8-Methylhypoxanthine	Н	O-acyl
CH ₃	O-amino acid	F	О	5-Fluoro-6-Methyluracil	Н	O-acyl
CH ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Н	O-acyl
CH ₃	O-amino acid	F	О	2-Fluoro-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CH ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	F	О	2-Amino-8-methylhypoxanthine	Н	O-acyl
CH ₃	O-amino acid	F	О	2-N-acetyl-8-methylguanine	Н	O-acyl
CH ₃	O-amino acid	F	О	4-N-acetyl-8-methylcytosine	Н	O-acyl
CH ₃	O-amino acid	F	О	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CH ₃	O-amino acid	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	F	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	F	О	2-N-acetylamino-8-	H	O-acyl
				methylhypoxanthine		
CH ₃	O-amino acid	F	О	6-Methylthymine	Н	ОН
CH ₃	O-amino acid	F	О	6-Methyluracil	H	ОН

CH3 O-amino acid F O 8-Methylguanine II OH CH3 O-amino acid F O 8-Methylguosine H OII CH3 O-amino acid F O 8-Methylhypoxanthine H OH CH3 O-amino acid F O 5-Fluoro-6-Methylcytosine H OH CH3 O-amino acid F O 5-Fluoro-6-Methylcytosine H OH CH3 O-amino acid F O 5-Fluoro-8-methyladenine H OH CH4 O-amino acid F O 2-Fluoro-8-methylhypoxanthine H OH CH3 O-amino acid F O 2-Amino-8-methylhypoxanthine H OH CH3 O-amino acid F O 2-Amino-8-methylpoxanthine H OH CH3 O-amino acid F O 4-N-acetyl-8-methylganine H OH CH4 O-amino acid F O 4-N-acetyl-18-methylganine H	R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH3 O-amino acid F O 8-Methyladenine H OH CH3 O-amino acid F O 8-Methylhypoxanthine H OH CH3 O-amino acid F O 5-Fluoro-6-Methyluracil H OH CH3 O-amino acid F O 5-Fluoro-6-Methylcytosine H OH CH3 O-amino acid F O 2-Fluoro-8-methyladenine H OH CH3 O-amino acid F O 2-Fluoro-8-methyladenine H OH CH3 O-amino acid F O 2-Amino-8-methyladenine H OH CH3 O-amino acid F O 2-N-acetyl-8-methylguanine H OH CH3 O-amino acid F O 4-N-acetyl-8-methylguanine H OH CH3 O-amino acid F O 6-N-acetyl-8-methylguanine H OH CH3 O-amino acid F O 6-N-acetyl-8-methyladenine H	CH ₃	O-amino acid	F	О	8-Methylguanine	Н	ОН
CH3 O-amino acid F O 8-Methylhypoxanthine H OH CH3 O-amino acid F O 5-Fluoro-6-Methyluracil H OH CH3 O-amino acid F O 5-Fluoro-8-methyladenine H OH CH3 O-amino acid F O 2-Fluoro-8-methyladenine H OH CH3 O-amino acid F O 2-Fluoro-8-methyladenine H OH CH3 O-amino acid F O 2-Amino-8-methyladenine H OH CH3 O-amino acid F O 2-Amino-8-methyladenine H OH CH3 O-amino acid F O 2-N-acetyl-8-methylcytosine H OH CH3 O-amino acid F O 4-N-acetyl-8-methylcytosine H OH CH3 O-amino acid F O 6-N-acetyl-18-methylcytosine H OH CH3 O-amino acid F O 6-N-acetyl-18-methylcytosine	CH ₃	O-amino acid	F	0	6-Methylcytosine	Н	ОН
CH3 O-amino acid F O 5-Fluoro-6-Methyluracil H OH CH3 O-amino acid F O 5-Fluoro-6-Methylytosine H OH CH3 O-amino acid F O 2-Fluoro-8-methyladenine H OH CH3 O-amino acid F O 2-Fluoro-8-methyladenine H OH CH3 O-amino acid F O 2-Amino-8-methyladenine H OH CH3 O-amino acid F O 2-N-acetyl-8-methylguanine H OH CH3 O-amino acid F O 4-N-acetyl-8-methylguanine H OH CH3 O-amino acid F O 4-N-acetyl-8-methyladenine H OH CH3 O-amino acid F O 6-N-acetyl-8-methyladenine H OH CH3 O-amino acid F O 6-N-acetyl-1-gluoro-8-methyladenine H OH CH3 O-amino acid F O 6-N-acetyl-1-gluoro-8-methy	CH ₃	O-amino acid	F	0	8-Methyladenine	Н	ОН
CH₃ O-amino acid F O 5-Fluoro-6-Methylcytosine H OH CH₃ O-amino acid F O 2-Fluoro-8-methyladenine H OH CH₃ O-amino acid F O 2-Fluoro-8-methylypoxanthine H OH CH₃ O-amino acid F O 2-Amino-8-methylypoxanthine H OH CH₃ O-amino acid F O 2-N-acetyl-8-methylguanine H OH CH₃ O-amino acid F O 4-N-acetyl-8-methylguanine H OH CH₃ O-amino acid F O 4-N-acetyl-8-methylguanine H OH CH₃ O-amino acid F O 4-N-acetyl-8-methylguanine H OH CH₃ O-amino acid F O 6-N-acetyl-8-methylguanine H OH CH₃ O-amino acid F O 6-N-acetyl-8-methylguanine H OH CH₃ O-amino acid F O 6-N-acetyl-3-methylguan	CH ₃	O-amino acid	F	0	8-Methylhypoxanthine	Н	OH
CH3 O-amino acid F O 2-Fluoro-8-methyladenine H OH CH3 O-amino acid F O 2-Fluoro-8-methylhypoxanthine H OH CH3 O-amino acid F O 2-Amino-8-methylhypoxanthine H OH CH3 O-amino acid F O 2-N-acetyl-8-methylguanine H OH CH3 O-amino acid F O 2-N-acetyl-8-methylguanine H OH CH3 O-amino acid F O 4-N-acetyl-8-methylguanine H OH CH3 O-amino acid F O 4-N-acetyl-8-methylguanine H OH CH3 O-amino acid F O 6-N-acetyl-8-methylguanine H OH CH3 O-amino acid F O 6-N-acetyl-2-fluoro-8-methylgadenine H OH CH3 O-amino acid F O 6-N-acetyl-2-amino-8-methylgadenine H OH CH3 O-amino acid F O 6-	CH ₃	O-amino acid	F	О	5-Fluoro-6-Methyluracil	Н	OH
CH ₃ O-amino acid F O 2-Fluoro-8-methylhypoxanthine H OH CH ₃ O-amino acid F O 2-Amino-8-methyladenine H OH CH ₃ O-amino acid F O 2-Amino-8-methyladenine H OH CH ₃ O-amino acid F O 2-N-acetyl-8-methyladenine H OH CH ₃ O-amino acid F O 4-N-acetyl-8-methyladenine H OH CH ₃ O-amino acid F O 4-N-acetyl-8-methyladenine H OH CH ₃ O-amino acid F O 4-N-acetyl-8-methyladenine H OH CH ₃ O-amino acid F O 4-N-acetyl-5-fluoro-8-methyladenine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-fluoro-8-methyladenine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-fluoro-8-methyladenine H OH CH ₃ O-amino acid F <	CH ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Н	OH
CH ₃ O-amino acid F O 2-Amino-8-methyladenine H OH CH ₃ O-amino acid F O 2-Amino-8-methylhypoxanthine H OH CH ₃ O-amino acid F O 2-N-acetyl-8-methylguanine H OH CH ₃ O-amino acid F O 4-N-acetyl-8-methylgytosine H OH CH ₃ O-amino acid F O 4-N-acetyl-5-fluoro-8-methylgytosine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-fluoro-8-methyladenine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-mino-8-methyladenine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-mino-8-methyladenine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-mino-8-methyladenine H OH CH ₃ O-amino acid F O 6-Methyltymine OH H CH ₃ O-amino acid F	CH ₃	O-amino acid	F	0	2-Fluoro-8-methyladenine	Н	ОН
CH ₃ O-amino acid F O 2-Amino-8-methylhypoxanthine H OH CH ₃ O-amino acid F O 2-N-acetyl-8-methylguanine H OH CH ₃ O-amino acid F O 4-N-acetyl-8-methylgytosine H OH CH ₃ O-amino acid F O 4-N-acetyl-8-methylgytosine H OH CH ₃ O-amino acid F O 4-N-acetyl-2-fluoro-8-methylgytosine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-fluoro-8-methylgytosine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-amino-8-methyladenine H OH CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine OH H CH ₃ O-amino acid F O 6-Methyltymine OH H CH ₃ O-amino acid F	CH ₃	O-amino acid	F	0	2-Fluoro-8-methylhypoxanthine	Н	ОН
CH3 O-amino acid F O 2-Amino-8-methylhypoxanthine H OH CH3 O-amino acid F O 2-N-acetyl-8-methylguanine H OH CH3 O-amino acid F O 4-N-acetyl-8-methylguanine H OH CH3 O-amino acid F O 6-N-acetyl-5-fluoro-8-methyladenine H OH CH3 O-amino acid F O 6-N-acetyl-2-fluoro-8-methyladenine H OH CH3 O-amino acid F O 6-N-acetyl-2-amino-8-methyladenine H OH CH3 O-amino acid F O 6-N-acetyl-2-amino-8-methyladenine H OH CH3 O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH3 O-amino acid F O 6-Methylthymine OH H CH3 O-amino acid F O 6-Methylthymine OH H CH3 O-amino acid F O 8-Met	CH ₃	O-amino acid	F	0		Н	·
CH₃ O-amino acid F O 2-N-acetyl-8-methylguanine H OH CH₃ O-amino acid F O 4-N-acetyl-8-methylcytosine H OH CH₃ O-amino acid F O 6-N-acetyl-8-methylcytosine H OH CH₃ O-amino acid F O 4-N-acetyl-5-fluoro-8-methyladenine H OH CH₃ O-amino acid F O 6-N-acetyl-2-amino-8-methyladenine H OH CH₃ O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH₃ O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH₃ O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH₃ O-amino acid F O 6-Methyltymine OH H OH CH₃ O-amino acid F O 6-Methyltygoxanthine OH H OH H CH A SH <	CH ₃	O-amino acid	F	O		Н	··
CH₃ O-amino acid F O 4-N-acetyl-8-methylcytosine H OH CH₃ O-amino acid F O 6-N-acetyl-8-methyladenine H OH CH₃ O-amino acid F O 4-N-acetyl-5-fluoro-8-methyladenine H OH CH₃ O-amino acid F O 6-N-acetyl-2-fluoro-8-methyladenine H OH CH₃ O-amino acid F O 6-N-acetyl-2-amino-8-methyladenine H OH CH₃ O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH₃ O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH₃ O-amino acid F O 6-Methylthymine OH H OH CH₃ O-amino acid F O 6-Methyltymine OH H H CH₃ O-amino acid F O 6-Methyltyposanthine OH H H H CH H OH	CH ₃	O-amino acid	F	0			
CH ₃ O-amino acid F O 6-N-acetyl-8-methyladenine H OH CH ₃ O-amino acid F O 4-N-acetyl-5-fluoro-8-methyladenine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-fluoro-8-methyladenine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-amino-8-methyladenine H OH CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH ₃ O-amino acid F O 6-Methyltymine OH H OH CH ₃ O-amino acid F O 6-Methyltymine OH H OH H <t< td=""><td>CH₃</td><td>O-amino acid</td><td>F</td><td>0</td><td></td><td></td><td></td></t<>	CH ₃	O-amino acid	F	0			
CH ₃ O-amino acid F O 4-N-acetyl-5-fluoro-8-methylcytosine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-fluoro-8-methyladenine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-amino-8-methyladenine H OH CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH ₃ O-amino acid F O 6-Methyltymine OH H CH ₃ O-amino acid F O 6-Methyltymine OH H CH ₃ O-amino acid F O 6-Methyltymine OH H CH ₃ O-amino acid F O 6-Methyltymine OH H CH ₃ O-amino acid F O 8-Methylguanine OH H CH ₃ O-amino acid F O 8-Methylpoxanthine OH H CH ₃ O-amino acid F O 5-Fluoro-6-Methylcytosine		O-amino acid	F	0			
CH ₃ O-amino acid F O 6-N-acetyl-2-fluoro-8-methyladenine H OH CH ₃ O-amino acid F O 6-N-acetyl-2-amino-8-methyladenine H OH CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH ₃ O-amino acid F O 6-Methylthymine OH H CH ₃ O-amino acid F O 6-Methyluracil OH H CH ₃ O-amino acid F O 6-Methyluracil OH H CH ₃ O-amino acid F O 8-Methyladenine OH H CH ₃ O-amino acid F O 8-Methyladenine OH H CH ₃ O-amino acid F O 8-Methyladenine OH H CH ₃ O-amino acid F O 5-Fluoro-6-Methylcytosine		O-amino acid	F	0			
CH3 CH3 O-amino acid CH3 O-amino acid CH4 O-amino acid CH3 O-amino acid CH4 O-amino acid CH4 O-amino acid CH3 O-amino acid CH4 O-amino acid CH5 O-Amino acid CH4 O-Amino acid CH5 O-Amino acid <b< td=""><td>CH₃</td><td></td><td>F</td><td>0</td><td> </td><td></td><td></td></b<>	CH ₃		F	0			
CH3 O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH3 O-amino acid F O 2-N-acetylamino-8-methyladenine H OH CH3 O-amino acid F O 6-Methylthymine OH H CH3 O-amino acid F O 6-Methylthyladenine OH H CH3 O-amino acid F O 8-Methylguanine OH H CH3 O-amino acid F O 6-Methylcytosine OH H CH3 O-amino acid F O 8-Methyladenine OH H CH3 O-amino acid F O 8-Methylhypoxanthine OH H CH3 O-amino acid F O 5-Fluoro-6-Methyluracil OH H CH3 O-amino acid F O 5-Fluoro-6-Methyluracil OH H CH3 O-amino acid F O 2-Fluoro-8-methylylyosine OH H </td <td></td> <td></td> <td>F</td> <td>0</td> <td></td> <td></td> <td>ļ</td>			F	0			ļ
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methylhypoxanthine	·		F				ł
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CH3O-amino acidFO8-MethylguanineOHHCH3O-amino acidFO6-MethylcytosineOHHCH3O-amino acidFO8-MethyladenineOHHCH3O-amino acidFO8-MethylhypoxanthineOHHCH3O-amino acidFO5-Fluoro-6-MethylcytosineOHHCH3O-amino acidFO2-Fluoro-8-methyladenineOHHCH3O-amino acidFO2-Fluoro-8-methyladenineOHHCH3O-amino acidFO2-Amino-8-methyladenineOHHCH3O-amino acidFO2-Amino-8-methylpyoxanthineOHHCH3O-amino acidFO2-N-acetyl-8-methylguanineOHHCH3O-amino acidFO4-N-acetyl-8-methylcytosineOHHCH3O-amino acidFO6-N-acetyl-5-fluoro-8-methylcytosineOHHCH3O-amino acidFO6-N-acetyl-2-fluoro-8-methyladenineOHHCH3O-amino acidFO6-N-acetyl-2-amino-8-methyladenineOHHCH3O-amino acidFO2-N-acetylamino-8-methyladenineOHHCH3O-amino acidFO2-N-acetylamino-8-methyladenineOHHCH3O-amino acidFO2-N-acetylamino-8-methyladenineOHHCH3O-amino acid </td <td></td> <td></td> <td>F</td> <td>0</td> <td></td> <td></td> <td></td>			F	0			
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CH ₃ O-amino acid F O 2-Amino-8-methyladenine OH H CH ₃ O-amino acid F O 2-Amino-8-methylhypoxanthine OH H CH ₃ O-amino acid F O 2-N-acetyl-8-methylguanine OH H CH ₃ O-amino acid F O 4-N-acetyl-8-methylcytosine OH H CH ₃ O-amino acid F O 6-N-acetyl-8-methyladenine OH H CH ₃ O-amino acid F O 4-N-acetyl-5-fluoro-8-methylcytosine OH H CH ₃ O-amino acid F O 6-N-acetyl-2-fluoro-8-methyladenine OH H CH ₃ O-amino acid F O 6-N-acetyl-2-amino-8-methyladenine OH H CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine OH H CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine OH H CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine OH H CH ₃ O-amino acid F O 6-Methylthymine F H			F	0			
CH3O-amino acidFO2-Amino-8-methylhypoxanthineOHHCH3O-amino acidFO2-N-acetyl-8-methylguanineOHHCH3O-amino acidFO4-N-acetyl-8-methylcytosineOHHCH3O-amino acidFO6-N-acetyl-8-methyladenineOHHCH3O-amino acidFO4-N-acetyl-5-fluoro-8-methylcytosineOHHCH3O-amino acidFO6-N-acetyl-2-fluoro-8-methyladenineOHHCH3O-amino acidFO2-N-acetylamino-8-methyladenineOHHCH3O-amino acidFO2-N-acetylamino-8-methyladenineOHHCH3O-amino acidFO2-N-acetylamino-8-methyladenineOHHCH3O-amino acidFO2-N-acetylamino-8-methyladenineOHHCH3O-amino acidBrO6-MethylthymineFH	-		F.				
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CH ₃ O-amino acid F O 4-N-acetyl-5-fluoro-8-methylcytosine OH H CH ₃ O-amino acid F O 6-N-acetyl-2-fluoro-8-methyladenine OH H CH ₃ O-amino acid F O 6-N-acetyl-2-amino-8-methyladenine OH H CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine OH H CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine OH H CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine OH H CH ₃ O-amino acid Br O 6-Methylthymine F H							
CH ₃ O-amino acid F O 6-N-acetyl-2-fluoro-8-methyladenine OH H CH ₃ O-amino acid F O 6-N-acetyl-2-amino-8-methyladenine OH H CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine OH H CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine OH H CH ₃ O-amino acid F O 6-Methylthymine F H							
CH ₃ O-amino acid F O 6-N-acetyl-2-amino-8-methyladenine OH H CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine OH H CH ₃ O-amino acid F O 2-N-acetylamino-8- methylhypoxanthine OH H CH ₃ O-amino acid Br O 6-Methylthymine F H							
CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine OH H CH ₃ O-amino acid F O 2-N-acetylamino-8-methyladenine OH H methylhypoxanthine OH H CH ₃ O-amino acid Br O 6-Methylthymine F H						+	
CH ₃ O-amino acid F O 2-N-acetylamino-8-methylhypoxanthine	-						
CH ₃ O-amino acid Br O 6-Methylthymine F H	$\overline{}$			-			
CH ₃ O-amino acid Br O 6-Methylthymine F H	5		_		l •	. ~	
	CH ₃	O-amino acid	Br	O		F	Н
Un3 U-amino acid Br U 6-Methyluracil F H	CH ₃	O-amino acid	Br	О	6-Methyluracil	F	Н
CH ₃ O-amino acid Br O 8-Methylguanine F H							
CH ₃ O-amino acid Br O 6-Methylcytosine F H					<u> </u>		
CH ₃ O-amino acid Br O 8-Methyladenine F H							
CH ₃ O-amino acid Br O 8-Methylhypoxanthine F H							
	CH ₃	O-amino acid	Br	o	5-Fluoro-6-Methyluracil	F	Н

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	F	Н
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	F	Н
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	F	H
CH ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	F	Н
CH ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	F.	Н
CH ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	F	H
CH ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	F	Н
CH ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	F	Н
CH ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	Н
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	F	Н
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	F	Н
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	Н
CH ₃	O-amino acid	Br	0	2-N-acetylamino-8-	F	Н
				methylhypoxanthine		·
CH ₃	O-amino acid	Br	О	6-Methylthymine	F	O-amino acid
CH ₃	O-amino acid	Br	0	6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	Br	О	8-Methylguanine	F	O-amino acid
CH ₃	O-amino acid	Br	0	6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Br	О	8-Methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	О	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Br	0	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	F.	O-amino acid
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Br	0	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	0	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Br	0	2-N-acetylamino-8-	F	O-amino acid
}				methylhypoxanthine		
CH ₃	O-amino acid	Br	О	6-Methylthymine	F	O-acyl
CH ₃	O-amino acid	Br	O	6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	Br	0	8-Methylguanine	F	O-acyl
CH ₃	O-amino acid	Br	О	6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	Br	О	8-Methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	О	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	F	O-acyl

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-amino acid	Br	0	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	Br	0	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	0	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-	F	O-acyl
				methylhypoxanthine		
CH ₃	O-amino acid	Br	O	6-Methylthymine	F	ОН
CH ₃	O-amino acid	Br	О	6-Methyluracil	F	ОН
CH ₃	O-amino acid	Br	О	8-Methylguanine	F	OH
CH ₃	O-amino acid	Br	О	6-Methylcytosine	F	ОН
CH ₃	O-amino acid	Br	0	8-Methyladenine	F	OH
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	OH
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	F	OH
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methylcytosine	F	ОН
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	F	OH
CH ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	F	OH
CH ₃	O-amino acid	Br	Ο.	2-Amino-8-methylhypoxanthine	F.	OH
CH ₃	O-amino acid	Br	0	2-N-acetyl-8-methylguanine	F	ОН
CH ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	F	ОН
CH ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	F	ОН
CH ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	ОН
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	F	ОН
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-	F	OH
			İ	methylhypoxanthine		
CH ₃	O-amino acid	Br	О	6-Methylthymine	Br	Н
CH ₃	O-amino acid	Br	0	6-Methyluracil	Br	Н
CH ₃	O-amino acid	Br	О	8-Methylguanine	Br	Н
CH ₃	O-amino acid	Br	О	6-Methylcytosine	Br	Н
CH ₃	O-amino acid	Br	O	8-Methyladenine	Br	Н
CH ₃	O-amino acid	Br	О	8-Methylhypoxanthine	Br	Н
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	Н
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methylcytosine	·Br	Н
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	Br	Н
CH ₃	O-amino acid	Br	0	2-Fluoro-8-methylhypoxanthine	Br	Н
CH ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	Br	H
CH ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	Br	Н
CH ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Br	Н
CH ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	Br	Н
CH ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	Br	Н
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	Н
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	Br	Н
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	Br	Н
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-	Br	Н
				methylhypoxanthine		
CH ₃	O-amino acid	Br	О	6-Methylthymine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	Br	О	8-Methylguanine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	8-Methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Br	0	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	Вг	O-amino acid
CH ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	Ο.	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	Br	O-amino acid
ÇH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine		
CH ₃	O-amino acid	Br	O	6-Methylthymine	Br	O-acyl
CH ₃	O-amino acid	Br	О	6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	Br	О	8-Methylguanine	Br	O-acyl
CH ₃	O-amino acid	Br	О	6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Br	О	8-Methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	О	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine		
CH ₃	O-amino acid	Br	O	6-Methylthymine	Br	ОН

\mathbb{R}^6	R ⁷	\mathbb{R}^8	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Br	О	6-Methyluracil	Br	OH
CH ₃	O-amino acid	Br	O	8-Methylguanine	Br	OH
CH ₃	O-amino acid	Br	O	6-Methylcytosine	Br	OH
CH ₃	O-amino acid	Br	О	8-Methyladenine	Br	OH
CH ₃	O-amino acid	Br	Ō	8-Methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Br	Ō	5-Fluoro-6-Methyluracil	Br	ОН
CH ₃	O-amino acid	Br	Ō	5-Fluoro-6-Methylcytosine	Br	OH
CH ₃	O-amino acid	Br	Ō	2-Fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	Br	Ō	2-Fluoro-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Br	ō	2-Amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	Br	o	2-Amino-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Br	o	2-N-acetyl-8-methylguanine	Br	OH
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Br	OH
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	OH
CH ₃	O-amino acid	Br	ŏ	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CH ₃	O-amino acid	Br	o	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	Br	0	2-N-acetylamino-8-methyladenine	Br	OH
CH ₃	O-amino acid	Br	0	2-N-acetylamino-8-	Br	OH
C113		וטו		methylhypoxanthine	Di Di	OII
CH ₃	O-amino acid	Br	0	6-Methylthymine	Cl	Н
CH ₃	O-amino acid	Br	0	6-Methyluracil	CI	H
CH ₃	O-amino acid	Br	0	8-Methylguanine	CI	H
CH ₃	O-amino acid	Br	0	6-Methylcytosine	Cl	H
CH ₃	O-amino acid	Br	0	8-Methyladenine	Cl	Н
CH ₃	O-amino acid	Br	o	8-Methylhypoxanthine	Cl	Н
CH ₃	O-amino acid	Br	0	5-Fluoro-6-Methyluracil	Cl	H
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Cl	H
CH ₃	O-amino acid	Вг	0	2-Fluoro-8-methyladenine	CI	Н
CH ₃	O-amino acid	Br	0	2-Fluoro-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	Br	0	2-Amino-8-methyladenine	CI	H
CH ₃	O-amino acid	Br	o	2-Anino-8-methylhypoxanthine	Cl	H
CH ₃	O-amino acid	Br	0	2-N-acetyl-8-methylguanine	Cl	H
CH ₃	O-amino acid	Br	0	4-N-acetyl-8-methylcytosine	CI	Н
CH ₃	O-amino acid	Br	0	6-N-acetyl-8-methyladenine	CI	H
CH ₃	O-amino acid	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CH ₃	O-amino acid	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	Н
CH ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	Cl	Н
CH ₃	O-amino acid	Br	0	2-N-acetylamino-8-methyladenine	Cl	Н
CH ₃	O-amino acid	Br	0	2-N-acetylamino-8-	Cl	Н
C1 13		וטו		methylhypoxanthine		11
CH ₃	O-amino acid	Br	0	6-Methylthymine	CI	O-amino acid
CH ₃	O-amino acid	Br	0	6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	Br	0	8-Methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	Br	0	6-Methylcytosine	Cl	O-amino acid
	O-amino acid		0	8-Methyladenine		O-amino acid
CH ₃		Br	+		CI	
CH ₃	O-amino acid	Br	О	8-Methylhypoxanthine	Cl	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	0	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	Br	0	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Br	0	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	O.	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-	Cl	O-amino acid
				methylhypoxanthine		
CH ₃	O-amino acid	Br	О	6-Methylthymine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	Br	О	8-Methylguanine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	8-Methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	Cĺ	O-acyl
CH ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-	Cl	O-acyl
				methylhypoxanthine		
CH ₃	O-amino acid	Br	О	6-Methylthymine	Cl	OH
CH ₃	O-amino acid	Br	О	6-Methyluracil	Cl	ОН
CH ₃	O-amino acid	Br	О	8-Methylguanine	Cl	ОН
CH ₃	O-amino acid	Br	О	6-Methylcytosine	Cl	ОН
CH ₃	O-amino acid	Br	О	8-Methyladenine	Cl	ОН
CH ₃	O-amino acid	Br	О	8-Methylhypoxanthine	Cl	ОН
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	Cl	ОН
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methylcytosine	Cl	ОН
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	Cl	ОН
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	Cl	ОН
CH ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	Cl	ОН

R ⁶	\mathbf{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	Ci	ОН
CH ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Ci	OH
CH ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	Cl	OH
CH ₃	O-amino acid	Br	Ó	6-N-acetyl-8-methyladenine	Cl	ÓН
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	ОН
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	ОН
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	Cl	ОН
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Cl	ОН
CH ₃	O-amino acid	Br	0	2-N-acetylamino-8-	CI	OH
				methylhypoxanthine		
CH ₃	O-amino acid	Br	0	6-Methylthymine	Н	Н
CH ₃	O-amino acid	Br	0	6-Methyluracil	Н	Н
CH ₃	O-amino acid	Br	О	8-Methylguanine	Н	Н
CH ₃	O-amino acid	Br	0	6-Methylcytosine	Н	Н
CH ₃	O-amino acid	Br	O	8-Methyladenine	Н	Н
CH ₃	O-amino acid	Br	О	8-Methylhypoxanthine	Η .	Н
CH ₃	O-amino acid	Br	0	5-Fluoro-6-Methyluracil	Н	Н
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methylcytosine	Н	Н
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	Н	Н
CH ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Н	Н
CH ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	Н	Н
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Н	Н
CH ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Н	Н
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Н	Н
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Н	Н
CH ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	Н
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	Н
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	Н	Н
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	Н	Н
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-	H	Н
				methylhypoxanthine		
CH ₃	O-amino acid	Br	О	6-Methylthymine	Н	O-amino acid
CH ₃	O-amino acid	Br	О	6-Methyluracil	Н	O-amino acid
CH ₃	O-amino acid	Br	О	8-Methylguanine	Н	O-amino acid
CH ₃	O-amino acid	Br	О	6-Methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	Br	О	8-Methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Br	О	8-Methylhypoxanthine	Н	O-amino acid
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	Н	O-amino acid
CH ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Br	0	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Br	0	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Н	O-amino acid
CH ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Br	O	2-N-acetylamino-8-	H	O-amino acid
				methylhypoxanthine		
CH ₃	O-amino acid	Br	0	6-Methylthymine	H	O-acyl
CH ₃	O-amino acid	Br	O	6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	Br	О	8-Methylguanine	H	O-acyl
CH ₃	O-amino acid	Br	0	6-Methylcytosine	H	O-acyl
CH ₃	O-amino acid	Br	0	8-Methyladenine	H	O-acyl
CH ₃	O-amino acid	Br	О	8-Methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Н	O-acyl
CH ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	O-amino acid	Br	0	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Br	0	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Η.	O-acyl
CH ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Н	O-acyl
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Н	O-acyl
CH ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-	H	O-acyl
				methylhypoxanthine		
CH ₃	O-amino acid	Br	О	6-Methylthymine	H	ОН
CH ₃	O-amino acid	Br	Ο	6-Methyluracil	H	ОН
CH ₃	O-amino acid	Br	0	8-Methylguanine	H	ОН
CH ₃	O-amino acid	Br	0	6-Methylcytosine	Н	ОН
CH ₃	O-amino acid	Br	0	8-Methyladenine	Н	ОН
CH ₃	O-amino acid	Br	0	8-Methylhypoxanthine	Н	ОН
CH ₃	O-amino acid	Br	0	5-Fluoro-6-Methyluracil	Н	ОН
CH ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	H	ОН
CH ₃	O-amino acid	Br	0	2-Fluoro-8-methyladenine	H	OH
CH ₃	O-amino acid	Br	0	2-Fluoro-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	Br	0	2-Amino-8-methyladenine	H	OH
CH ₃	O-amino acid	Br	0	2-Amino-8-methylhypoxanthine	Н	ОН
CH ₃	O-amino acid	Br	0	2-N-acetyl-8-methylguanine	H	ОН
CH ₃	O-amino acid	Br	0	4-N-acetyl-8-methylcytosine	Н	OH
CH ₃	O-amino acid	Br	0	6-N-acetyl-8-methyladenine	H	ОН
CH ₃	O-amino acid	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	H	ОН
CH ₃	O-amino acid	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	OH
CH ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	Н	ОН
CH ₃	O-amino acid	Br	0	2-N-acetylamino-8-methyladenine	H	ОН
CH ₃	O-amino acid	Br	О	2-N-acetylamino-8-	H	OH .
L				methylhypoxanthine	1	

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Br	O	6-Methylthymine	OH	Н
CH ₃	O-amino acid	Br	0	6-Methyluracil	ОН	Н
CH ₃	O-amino acid	Br	0	8-Methylguanine	ОН	H
CH ₃	O-amino acid	Br	0	6-Methylcytosine	ОН	Н
CH ₃	O-amino acid	Br	0	8-Methyladenine	ОН	Н
CH ₃	O-amino acid	Br	O	8-Methylhypoxanthine	OH	Н
CH ₃	O-amino acid	Br	0	5-Fluoro-6-Methyluracil	ОН	Н
CH ₃	O-amino acid	Br	О	5-Fluoro-6-Methylcytosine	OH	Н
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	OH	Н
CH ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	OH	Н
CH ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	OH	Н
CH ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	OH	Н
CH ₃	O-amino acid	Br	0	2-N-acetyl-8-methylguanine	OH	Н
CH ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	OH	Н
CH ₃	O-amino acid	Br	0	6-N-acetyl-8-methyladenine	OH	H
CH ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CH ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	Н
CH ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	OH	H
CH ₃	O-amino acid	Br	o	2-N-acetylamino-8-methyladenine	OH	Н
CH ₃	O-amino acid	Br	o	2-N-acetylamino-8-	OH	Н
	• •••••••••••••••••••••••••••••••••••			methylhypoxanthine		
CH ₃	O-amino acid	Cl	o	6-Methylthymine	F	Н
CH ₃	O-amino acid	Cl	ō	6-Methyluracil	F	Н
CH ₃	O-amino acid	Čl	Ō	8-Methylguanine	F	H
CH ₃	O-amino acid	Cl	Ō	6-Methylcytosine	F	H
CH ₃	O-amino acid	Cl	O	8-Methyladenine	F	H
CH ₃	O-amino acid	Cl	Ō	8-Methylhypoxanthine	F	Н
CH ₃	O-amino acid	Cl	0	5-Fluoro-6-Methyluracil	F	H
CH ₃	O-amino acid	Cl	0	5-Fluoro-6-Methylcytosine	F	Н
CH ₃	O-amino acid	CI	0	2-Fluoro-8-methyladenine	F	Н
CH ₃	O-amino acid	Cl	0	2-Fluoro-8-methylhypoxanthine	F	Н
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	F	Н
	O-amino acid	Cl	О	2-Amino-8-methylhypoxanthine	F	Н
CH ₃	O-amino acid	CI	О	2-N-acetyl-8-methylguanine	F	Н
CH ₃	O-amino acid	Cl	0	4-N-acetyl-8-methylcytosine	F	H
CH ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	F	Н
CH ₃	O-amino acid	Ci	0	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	Н
CH ₃	O-amino acid	Cl	Ō	6-N-acetyl-2-amino-8-methyladenine	F	H
CH ₃	O-amino acid	Cl	Ō	2-N-acetylamino-8-methyladenine	F	H
CH ₃	O-amino acid	Cl	Ō	2-N-acetylamino-8-	F	Н
				methylhypoxanthine	1	**
CH ₃	O-amino acid	Cl	o	6-Methylthymine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	Cl	o	8-Methylguanine	F	O-amino acid
CH ₃	O-amino acid	Cl	O.	6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methyladenine	F	O-amino acid
	o annino acid			O Month indentitie	1.*	o animo acid

\mathbb{R}^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Cl	О	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Cl	О	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Cl	О	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Čl	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Cl	О	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-	F	O-amino acid
				methylhypoxanthine	1	
CH ₃	O-amino acid	Cl	O	6-Methylthymine	F	O-acyl
CH ₃	O-amino acid	Cl	O	6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methylguanine	F	O-acyl
CH ₃	O-amino acid	Cl	Ō	6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	Cl	0	8-Methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	Ō	8-Methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	0	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	O-amino acid	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	Ō	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	Ō	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	O-amino acid	Cl	О	2-N-acetylamino-8-	F	O-acyl
				methylhypoxanthine	1	
CH ₃	O-amino acid	Cl	0	6-Methylthymine	F	ОН
CH ₃	O-amino acid	Cl	O	6-Methyluracil	F	ОН
CH ₃	O-amino acid	Cl	0	8-Methylguanine	F	OH
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	F	ОН
CH ₃	O-amino acid	Cl	O	8-Methyladenine	F	OH
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	F	OH
CH ₃	O-amino acid	Cl	o	5-Fluoro-6-Methyluracil	F	ОН
CH ₃	O-amino acid	Cl	ō	5-Fluoro-6-Methylcytosine	F	ОН
CH ₃	O-amino acid	Cl	o	2-Fluoro-8-methyladenine	F	ОН
CH ₃	O-amino acid	Cl	ō	2-Fluoro-8-methylhypoxanthine	F	OH
C11 3	y annio acid			2 i idoro-o-mentymypoxanumie	1 1	OII

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Cl	О	2-Amino-8-methyladenine	F	OH
CH ₃	O-amino acid	Cl	0	2-Amino-8-methylhypoxanthine	F	ОН
CH ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	F	ОН
CH ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	F	OH
CH ₃	O-amino acid	Cl	0	6-N-acetyl-8-methyladenine	F	OH
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	ОН
CH ₃	O-amino acid	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CH ₃	O-amino acid	Cl	0	2-N-acetylamino-8-methyladenine	F	OH
CH ₃	O-amino acid	Cl	0	2-N-acetylamino-8-	F .	ОH
				methylhypoxanthine		
CH ₃	O-amino acid	Cl	О	6-Methylthymine	Br	Н
CH ₃	O-amino acid	Cl	0	6-Methyluracil	Br	Н
CH ₃	O-amino acid	Cl	О	8-Methylguanine	Br	Н
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	Br	Н
CH ₃	O-amino acid	Cl	0	8-Methyladenine	Br	Н
CH ₃	O-amino acid	Cl	0	8-Methylhypoxanthine	Br	Н
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Br	Н
CH ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	Br	Н
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Br	Н
CH ₃	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	Br	Н
CH ₃	O-amino acid	Cl	0	2-Amino-8-methyladenine	Br	Н
CH ₃	O-amino acid	Cl	О	2-Amino-8-methylhypoxanthine	Br	Н
CH ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	Br	Н
CH ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	Br	Н
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Br	Н
CH ₃	O-amino acid	Cl	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	Н
CH ₃	O-amino acid	Cl	O.	6-N-acetyl-2-fluoro-8-methyladenine	Br	Н
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Br	Н
CH ₃	O-amino acid	Cl	0	2-N-acetylamino-8-	Br	Н
				methylhypoxanthine		
CH ₃	O-amino acid	Cl	O	6-Methylthymine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	Cl	O.	8-Methylguanine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Cl	0	8-Methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	Cl	0	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	Br	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Cl	О	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Čl	О	2-N-acetylamino-8-	Br	O-amino acid
		_		methylhypoxanthine		
CH ₃	O-amino acid	Cl	О	6-Methylthymine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	Cl	О	8-Methylguanine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	8-Methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	C1	О	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Cl	О	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine		_
CH ₃	O-amino acid	Cl	О	6-Methylthymine	Br	OH
CH ₃	O-amino acid	Cl	О	6-Methyluracil	Br	OH
CH ₃	O-amino acid	Cl	О	8-Methylguanine	Br	OH
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	Br	OH
CH ₃	O-amino acid	Cl	О	8-Methyladenine	Br	OH
CH ₃	O-amino acid	Cl	О	8-Methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Cl	О	5-Fluoro-6-Methyluracil	Br	OH
CH ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	Br	OH
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Cl	О	2-Amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	Cl	О	2-Amino-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	Br	ОН
CH ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	Br	ОН
CH ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	Br	OH
CH ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	ОН
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	ОН
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Br	ОН
CH ₃	O-amino acid	Cl	О	2-N-acetylamino-8-methyladenine	Br	ОН
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-	Br	ОН

methylhypoxanthineCH3O-amino acidCIO6-MethylthymineCICH3O-amino acidCIO6-MethyluracilCICH3O-amino acidCIO8-MethylguanineCICH3O-amino acidCIO6-MethylcytosineCICH3O-amino acidCIO8-MethyladenineCICH3O-amino acidCIO8-MethylhypoxanthineCICH3O-amino acidCIO5-Fluoro-6-MethyluracilCICH3O-amino acidCIO5-Fluoro-6-MethylcytosineCICH3O-amino acidCIO2-Fluoro-8-methyladenineCICH3O-amino acidCIO2-Amino-8-methyladenineCICH3O-amino acidCIO2-Amino-8-methylhypoxanthineCICH3O-amino acidCIO2-N-acetyl-8-methylguanineCICH3O-amino acidCIO4-N-acetyl-8-methyladenineCICH3O-amino acidCIO4-N-acetyl-8-methyladenineCICH3O-amino acidCIO4-N-acetyl-8-methyladenineCICH3O-amino acidCIO4-N-acetyl-8-methyladenineCICH3O-amino acidCIO4-N-acetyl-8-methyladenineCICH3O-amino acidCIO6-N-acetyl-8-methyladenineCICH3O-amino acidCIO6-N-acetyl-8-methyladenine <th< th=""><th>H H H H H H H H H H H H H H H H H H H</th></th<>	H H H H H H H H H H H H H H H H H H H
CH3O-amino acidClO6-MethyluracilClCH3O-amino acidClO8-MethylguanineClCH3O-amino acidClO6-MethylcytosineClCH3O-amino acidClO8-MethyladenineClCH3O-amino acidClO8-MethylhypoxanthineClCH3O-amino acidClO5-Fluoro-6-MethyluracilClCH3O-amino acidClO2-Fluoro-8-methyladenineClCH3O-amino acidClO2-Fluoro-8-methyladenineClCH3O-amino acidClO2-Amino-8-methyladenineClCH3O-amino acidClO2-Amino-8-methylhypoxanthineClCH3O-amino acidClO2-N-acetyl-8-methylguanineClCH3O-amino acidClO4-N-acetyl-8-methylcytosineClCH3O-amino acidClO4-N-acetyl-8-methyladenineClCH3O-amino acidClO4-N-acetyl-5-fluoro-8-methylcytosineClCH3O-amino acidClO4-N-acetyl-5-fluoro-8-methylcytosineClCH3O-amino acidClO6-N-acetyl-2-fluoro-8-methyladenineCl	H H H H H H H H H H H H H H H H
CH3O-amino acidCIO8-MethylguanineCICH3O-amino acidCIO6-MethylcytosineCICH3O-amino acidCIO8-MethyladenineCICH3O-amino acidCIO8-MethylhypoxanthineCICH3O-amino acidCIO5-Fluoro-6-MethyluracilCICH3O-amino acidCIO2-Fluoro-8-methyladenineCICH3O-amino acidCIO2-Fluoro-8-methylhypoxanthineCICH3O-amino acidCIO2-Amino-8-methyladenineCICH3O-amino acidCIO2-Amino-8-methylhypoxanthineCICH3O-amino acidCIO2-N-acetyl-8-methylguanineCICH3O-amino acidCIO4-N-acetyl-8-methylcytosineCICH3O-amino acidCIO4-N-acetyl-8-methyladenineCICH3O-amino acidCIO4-N-acetyl-5-fluoro-8-methylcytosineCICH3O-amino acidCIO6-N-acetyl-5-fluoro-8-methylcytosineCICH3O-amino acidCIO6-N-acetyl-5-fluoro-8-methyladenineCI	H H H H H H H H H H H H H H
CH3O-amino acidCIO8-MethylguanineCICH3O-amino acidCIO6-MethylcytosineCICH3O-amino acidCIO8-MethyladenineCICH3O-amino acidCIO8-MethylhypoxanthineCICH3O-amino acidCIO5-Fluoro-6-MethyluracilCICH3O-amino acidCIO2-Fluoro-8-methyladenineCICH3O-amino acidCIO2-Fluoro-8-methylhypoxanthineCICH3O-amino acidCIO2-Amino-8-methyladenineCICH3O-amino acidCIO2-Amino-8-methylhypoxanthineCICH3O-amino acidCIO2-N-acetyl-8-methylguanineCICH3O-amino acidCIO4-N-acetyl-8-methylcytosineCICH3O-amino acidCIO4-N-acetyl-8-methyladenineCICH3O-amino acidCIO4-N-acetyl-5-fluoro-8-methylcytosineCICH3O-amino acidCIO6-N-acetyl-5-fluoro-8-methylcytosineCICH3O-amino acidCIO6-N-acetyl-5-fluoro-8-methyladenineCI	H H H H H H H H H H H H H
CH3O-amino acidCIO8-MethyladenineCICH3O-amino acidCIO8-MethylhypoxanthineCICH3O-amino acidCIO5-Fluoro-6-MethyluracilCICH3O-amino acidCIO5-Fluoro-6-MethylcytosineCICH3O-amino acidCIO2-Fluoro-8-methyladenineCICH3O-amino acidCIO2-Fluoro-8-methylhypoxanthineCICH3O-amino acidCIO2-Amino-8-methylhypoxanthineCICH3O-amino acidCIO2-N-acetyl-8-methylguanineCICH3O-amino acidCIO4-N-acetyl-8-methylcytosineCICH3O-amino acidCIO6-N-acetyl-8-methyladenineCICH3O-amino acidCIO4-N-acetyl-5-fluoro-8-methylcytosineCICH3O-amino acidCIO6-N-acetyl-5-fluoro-8-methylcytosineCICH3O-amino acidCIO6-N-acetyl-2-fluoro-8-methyladenineCI	H H H H H H H H H H H
CH3O-amino acidClO8-MethyladenineClCH3O-amino acidClO8-MethylhypoxanthineClCH3O-amino acidClO5-Fluoro-6-MethyluracilClCH3O-amino acidClO5-Fluoro-6-MethylcytosineClCH3O-amino acidClO2-Fluoro-8-methyladenineClCH3O-amino acidClO2-Fluoro-8-methylhypoxanthineClCH3O-amino acidClO2-Amino-8-methylhypoxanthineClCH3O-amino acidClO2-N-acetyl-8-methylguanineClCH3O-amino acidClO4-N-acetyl-8-methylgytosineClCH3O-amino acidClO6-N-acetyl-8-methylgytosineClCH3O-amino acidClO4-N-acetyl-5-fluoro-8-methylgytosineClCH3O-amino acidClO6-N-acetyl-5-fluoro-8-methylgytosineClCH3O-amino acidClO6-N-acetyl-2-fluoro-8-methylgytosineCl	H H H H H H H H H H H
CH3O-amino acidCIO8-MethylhypoxanthineCICH3O-amino acidCIO5-Fluoro-6-MethyluracilCICH3O-amino acidCIO5-Fluoro-6-MethylcytosineCICH3O-amino acidCIO2-Fluoro-8-methyladenineCICH3O-amino acidCIO2-Fluoro-8-methylhypoxanthineCICH3O-amino acidCIO2-Amino-8-methylhypoxanthineCICH3O-amino acidCIO2-N-acetyl-8-methylguanineCICH3O-amino acidCIO4-N-acetyl-8-methylcytosineCICH3O-amino acidCIO6-N-acetyl-8-methyladenineCICH3O-amino acidCIO4-N-acetyl-5-fluoro-8-methylcytosineCICH3O-amino acidCIO6-N-acetyl-5-fluoro-8-methylcytosineCICH3O-amino acidCIO6-N-acetyl-2-fluoro-8-methyladenineCI	H H H H H H H
CH ₃ O-amino acid Cl O 5-Fluoro-6-Methyluracil Cl CH ₃ O-amino acid Cl O 5-Fluoro-6-Methylcytosine Cl CH ₃ O-amino acid Cl O 2-Fluoro-8-methyladenine Cl CH ₃ O-amino acid Cl O 2-Fluoro-8-methylhypoxanthine Cl CH ₃ O-amino acid Cl O 2-Amino-8-methyladenine Cl CH ₃ O-amino acid Cl O 2-Amino-8-methylhypoxanthine Cl CH ₃ O-amino acid Cl O 2-N-acetyl-8-methylguanine Cl CH ₃ O-amino acid Cl O 4-N-acetyl-8-methylcytosine Cl CH ₃ O-amino acid Cl O 6-N-acetyl-8-methyladenine Cl CH ₃ O-amino acid Cl O 6-N-acetyl-5-fluoro-8-methylcytosine Cl CH ₃ O-amino acid Cl O 6-N-acetyl-2-fluoro-8-methyladenine Cl	H H H H H H
CH3O-amino acidClO5-Fluoro-6-MethylcytosineClCH3O-amino acidClO2-Fluoro-8-methyladenineClCH3O-amino acidClO2-Fluoro-8-methylhypoxanthineClCH3O-amino acidClO2-Amino-8-methyladenineClCH3O-amino acidClO2-Amino-8-methylhypoxanthineClCH3O-amino acidClO2-N-acetyl-8-methylguanineClCH3O-amino acidClO4-N-acetyl-8-methyladenineClCH3O-amino acidClO6-N-acetyl-8-methyladenineClCH3O-amino acidClO4-N-acetyl-5-fluoro-8-methylcytosineClCH3O-amino acidClO6-N-acetyl-2-fluoro-8-methyladenineCl	H H H H H H
CH3O-amino acidClO2-Fluoro-8-methyladenineClCH3O-amino acidClO2-Fluoro-8-methylhypoxanthineClCH3O-amino acidClO2-Amino-8-methyladenineClCH3O-amino acidClO2-Amino-8-methylhypoxanthineClCH3O-amino acidClO2-N-acetyl-8-methylguanineClCH3O-amino acidClO4-N-acetyl-8-methylcytosineClCH3O-amino acidClO6-N-acetyl-8-methyladenineClCH3O-amino acidClO4-N-acetyl-5-fluoro-8-methylcytosineClCH3O-amino acidClO6-N-acetyl-2-fluoro-8-methyladenineCl	H H H H H
CH ₃ O-amino acid Cl O 2-Fluoro-8-methylhypoxanthine Cl CH ₃ O-amino acid Cl O 2-Amino-8-methyladenine Cl CH ₃ O-amino acid Cl O 2-Amino-8-methylhypoxanthine Cl CH ₃ O-amino acid Cl O 2-N-acetyl-8-methylguanine Cl CH ₃ O-amino acid Cl O 4-N-acetyl-8-methylcytosine Cl CH ₃ O-amino acid Cl O 6-N-acetyl-8-methyladenine Cl CH ₃ O-amino acid Cl O 4-N-acetyl-5-fluoro-8-methylcytosine Cl CH ₃ O-amino acid Cl O 6-N-acetyl-2-fluoro-8-methylcytosine Cl	H H H H H
CH ₃ O-amino acid Cl O 2-Amino-8-methyladenine Cl CH ₃ O-amino acid Cl O 2-Amino-8-methylhypoxanthine Cl CH ₃ O-amino acid Cl O 2-N-acetyl-8-methylguanine Cl CH ₃ O-amino acid Cl O 4-N-acetyl-8-methylcytosine Cl CH ₃ O-amino acid Cl O 6-N-acetyl-8-methyladenine Cl CH ₃ O-amino acid Cl O 4-N-acetyl-5-fluoro-8-methylcytosine Cl CH ₃ O-amino acid Cl O 6-N-acetyl-2-fluoro-8-methyladenine Cl	H H H H
CH3O-amino acidClO2-Amino-8-methylhypoxanthineClCH3O-amino acidClO2-N-acetyl-8-methylguanineClCH3O-amino acidClO4-N-acetyl-8-methylcytosineClCH3O-amino acidClO6-N-acetyl-8-methyladenineClCH3O-amino acidClO4-N-acetyl-5-fluoro-8-methylcytosineClCH3O-amino acidClO6-N-acetyl-2-fluoro-8-methyladenineCl	H H H
CH3O-amino acidClO2-N-acetyl-8-methylguanineClCH3O-amino acidClO4-N-acetyl-8-methylcytosineClCH3O-amino acidClO6-N-acetyl-8-methyladenineClCH3O-amino acidClO4-N-acetyl-5-fluoro-8-methylcytosineClCH3O-amino acidClO6-N-acetyl-2-fluoro-8-methyladenineCl	H H H
CH ₃ O-amino acid Cl O 4-N-acetyl-8-methylcytosine Cl CH ₃ O-amino acid Cl O 6-N-acetyl-8-methyladenine Cl CH ₃ O-amino acid Cl O 4-N-acetyl-5-fluoro-8-methylcytosine Cl CH ₃ O-amino acid Cl O 6-N-acetyl-2-fluoro-8-methyladenine Cl	H
CH ₃ O-amino acid Cl O 6-N-acetyl-8-methyladenine Cl CH ₃ O-amino acid Cl O 4-N-acetyl-5-fluoro-8-methylcytosine Cl CH ₃ O-amino acid Cl O 6-N-acetyl-2-fluoro-8-methyladenine Cl	Н
CH ₃ O-amino acid Cl O 4-N-acetyl-5-fluoro-8-methylcytosine Cl CH ₃ O-amino acid Cl O 6-N-acetyl-2-fluoro-8-methyladenine Cl	
CH ₃ O-amino acid Cl O 6-N-acetyl-2-fluoro-8-methyladenine Cl	A A
	Н
CH ₃ O-amino acid Cl O 6-N-acetyl-2-amino-8-methyladenine Cl	H
CH ₃ O-amino acid Cl O 2-N-acetylamino-8-methyladenine Cl	Н
CH ₃ O-amino acid Cl O 2-N-acetylamino-8- Cl	Н
methylhypoxanthine	
CH ₃ O-amino acid Cl O 6-Methylthymine Cl	O-amino acid
CH ₃ O-amino acid Cl O 6-Methyluracil Cl	O-amino acid
CH ₃ O-amino acid Cl O 8-Methylguanine Cl	O-amino acid
CH ₃ O-amino acid Cl O 6-Methylcytosine Cl	O-amino acid
CH ₃ O-amino acid Cl O 8-Methyladenine Cl	O-amino acid
CH ₃ O-amino acid Cl O 8-Methylhypoxanthine Cl	O-amino acid
CH ₃ O-amino acid Cl O 5-Fluoro-6-Methyluracil Cl	O-amino acid
CH ₃ O-amino acid Cl O 5-Fluoro-6-Methylcytosine Cl	O-amino acid
CH ₃ O-amino acid Cl O 2-Fluoro-8-methyladenine Cl	O-amino acid
CH ₃ O-amino acid Cl O 2-Fluoro-8-methylhypoxanthine Cl	O-amino acid
CH ₃ O-amino acid Cl O 2-Amino-8-methyladenine Cl	O-amino acid
CH ₃ O-amino acid Cl O 2-Amino-8-methylhypoxanthine Cl	O-amino acid
CH ₃ O-amino acid Cl O 2-N-acetyl-8-methylguanine Cl	O-amino acid
CH ₃ O-amino acid Cl O 4-N-acetyl-8-methylcytosine Cl	O-amino acid
CH ₃ O-amino acid Cl O 6-N-acetyl-8-methyladenine Cl	O-amino acid
CH ₃ O-amino acid Cl O 4-N-acetyl-5-fluoro-8-methylcytosine Cl	O-amino acid
CH ₃ O-amino acid Cl O 6-N-acetyl-2-fluoro-8-methyladenine Cl	O-amino acid
CH ₃ O-amino acid Cl O 6-N-acetyl-2-amino-8-methyladenine Cl	O-amino acid
CH ₃ O-amino acid Cl O 2-N-acetylamino-8-methyladenine Cl	O-amino acid
CH ₃ O-amino acid Cl O 2-N-acetylamino-8- Cl	O-amino acid
methylhypoxanthine	
CH ₃ O-amino acid Cl O 6-Methylthymine Cl	O-acyl
CH ₃ O-amino acid Cl O 6-Methyluracil Cl	O-acyl
CH ₃ O-amino acid Cl O 8-Methylguanine Cl	O-acyl
CH ₃ O-amino acid Cl O 6-Methylcytosine Cl	O-acyl

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Cl	0	8-Methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	О	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	C1	0	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	0	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Cl	0	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	0	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Cl	0	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-	Cl	O-acyl
٦				methylhypoxanthine		
CH ₃	O-amino acid	Cl	0	6-Methylthymine	Cl	ОН
CH ₃	O-amino acid	Cl	O	6-Methyluracil	Cl	OH
CH ₃	O-amino acid	Cl	Ō	8-Methylguanine	Cl	ОН
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	Cl	OH .
CH ₃	O-amino acid	Cl	0	8-Methyladenine	Cl	OH
CH ₃	O-amino acid	Cl	0	8-Methylhypoxanthine	Cl	ОН
CH ₃	O-amino acid	Cl	0	5-Fluoro-6-Methyluracil	CI	ОН
CH ₃	O-amino acid	Cl	Ō	5-Fluoro-6-Methylcytosine	Cl	OH
CH ₃	O-amino acid	Cl	О	2-Fluoro-8-methyladenine	Cl	ОН
CH ₃	O-amino acid	Cl	0	2-Fluoro-8-methylhypoxanthine	Cl	ОН
CH ₃	O-amino acid	Cl	О	2-Amino-8-methyladenine	Cl	ОН
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Cl	ОН
CH ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	Cl	ОН
CH ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	Cl	ОН
CH ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	Cl	ОН
	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	ОН
CH ₃	O-amino acid	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	ОН
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Cl	ОН
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Cl	ОН
CH ₃	O-amino acid	Cl	О	2-N-acetylamino-8-	Cl	ОН
-				methylhypoxanthine	-	
CH ₃	O-amino acid	Cl	О	6-Methylthymine	Н	Н
CH ₃	O-amino acid	Cl	О	6-Methyluracil	H	H
CH ₃	O-amino acid	Cl	О	8-Methylguanine	Н	Н
CH ₃	O-amino acid	Cl	О	6-Methylcytosine	Н	Н
CH ₃	O-amino acid	Cl	O	8-Methyladenine	Н	H
CH ₃	O-amino acid	Cl	Ó	8-Methylhypoxanthine	Н	H
CH ₃	O-amino acid	Cl	О	5-Fluoro-6-Methyluracil	Н	H
CH ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	Н	H
CH ₃	O-amino acid	Cl	О	2-Fluoro-8-methyladenine	Н	Н

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	Н	H
CH ₃	O-amino acid	Cl	О	2-Amino-8-methyladenine	Н	Н
CH ₃	O-amino acid	Cl	О	2-Amino-8-methylhypoxanthine	Н	Н
CH ₃	O-amino acid	Cl	0	2-N-acetyl-8-methylguanine	Н	H
CH ₃	O-amino acid	Cl	0	4-N-acetyl-8-methylcytosine	Н	H
CH ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	Н	Н
CH ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	Н
CH ₃	O-amino acid	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	Н
CH ₃	O-amino acid	Cl	0	6-N-acetyl-2-amino-8-methyladenine	Н	Н
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	H	Н
CH ₃	O-amino acid	Cl	О	2-N-acetylamino-8-	Н	H
				methylhypoxanthine		
CH ₃	O-amino acid	Cl	О	6-Methylthymine	Н	O-amino acid
CH ₃	O-amino acid	Cl	0	6-Methyluracil	Н	O-amino acid
CH ₃	O-amino acid	Cl	0	8-Methylguanine	Н	O-amino acid
CH ₃	O-amino acid	Cl	0	6-Methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	Cl	O	8-Methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Cl	0	8-Methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Н	O-amino acid
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	O-amino acid	Cl	0	2-Fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Cl	0	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Cl	0	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	O-amino acid	Cl	0	2-N-acetyl-8-methylguanine	Н	O-amino acid
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Cl	О	2-N-acetylamino-8-	Н	O-amino acid
				methylhypoxanthine		
CH ₃	O-amino acid	Cl	О	6-Methylthymine	Н	O-acyl
CH ₃	O-amino acid	Cl	О	6-Methyluracil	Н	O-acyl
CH ₃	O-amino acid	Cl	О	8-Methylguanine	Н	O-acyl
CH ₃	O-amino acid	Cl	0	6-Methylcytosine	Н	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methyladenine	Н	O-acyl
CH ₃	O-amino acid	Cl	O	8-Methylhypoxanthine	Н	O-acyl
CH ₃	O-amino acid	Cl	О	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Н	O-acyl
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Н	O-acyl
CH ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	Н	O-acyl
CH ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	Н	O-acyl

\mathbf{R}^{6}	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	Cl	0	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	Cl	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	CÎ	О	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	O-amino acid	Cl	О	2-N-acetylamino-8-	Н	O-acyl
1			ļ	methylhypoxanthine		
CH ₃	O-amino acid	Cl	0	6-Methylthymine	Н	OH
CH ₃	O-amino acid	Cl	О	6-Methyluracil	Н	ОН
CH ₃	O-amino acid	Cl	O	8-Methylguanine	Н	ОН
CH ₃	O-amino acid	Cl	O	6-Methylcytosine	Н	OH
CH ₃	O-amino acid	Cl	Ò	8-Methyladenine	Н	ОН
CH ₃	O-amino acid	Cl	0	8-Methylhypoxanthine	Н	OH
CH ₃	O-amino acid	Cl	0	5-Fluoro-6-Methyluracil	Н	ОН
CH ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Н	ОН
CH ₃	O-amino acid	Cl	О	2-Fluoro-8-methyladenine	Н	OH
CH ₃	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	Н	ОН
CH ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	H	ОН
CH ₃	O-amino acid	.Cl	О	2-Amino-8-methylhypoxanthine	Н	OH
CH ₃	O-amino acid	CI	О	2-N-acetyl-8-methylguanine	Н	ОН
CH ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	Н	OH
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Н	ОН
CH ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	ОН
CH ₃	O-amino acid	CI	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	ОН
CH ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Н	OH
CH ₃	O-amino acid	Cl	О	2-N-acetylamino-8-methyladenine	Н	ОН
CH ₃	O-amino acid	Cl	Ó	2-N-acetylamino-8-	Н	OH
				methylhypoxanthine		
CH ₃	O-amino acid	Cl	О	6-Methylthymine	OH	Н
CH ₃	O-amino acid	Cl	О	6-Methyluracil	ОH	Н
CH ₃	O-amino acid	Cl	O	8-Methylguanine	OH	Н
CH ₃	O-amino acid	Cl	О	6-Methylcytosine	ОН	Н
CH ₃	O-amino acid	Cl	0	8-Methyladenine	OH	Н
CH ₃	O-amino acid	CI	0	8-Methylhypoxanthine	ОН	Н
CH ₃	O-amino acid	CI	0	5-Fluoro-6-Methyluracil	ОН	Н
CH ₃	O-amino acid	Cl	0	5-Fluoro-6-Methylcytosine	OH	Н
CH ₃	O-amino acid	CI	O	2-Fluoro-8-methyladenine	ОН	Н
CH ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	Cl	О	2-Amino-8-methyladenine	ОН	H
CH ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	OH	H
CH ₃	O-amino acid	CI	О	2-N-acetyl-8-methylguanine	ОН	Н
CH ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	ОН	H
CH ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	OH	Н
CH ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	OH	H
CH ₃	O-amino acid	CI	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	Н
CH ₃	O-amino acid	Cl	Ō	6-N-acetyl-2-amino-8-methyladenine	ОН	Н
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	OH	Н

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Cl	O	2-N-acetylamino-8-	OH	Н
				methylhypoxanthine		
CH ₃	O-amino acid	Н	О	6-Methylthymine	F	Н
CH ₃	O-amino acid	Н	O	6-Methyluracil	F	Н
CH ₃	O-amino acid	Н	O	8-Methylguanine	F	Н
CH ₃	O-amino acid	Н	O	6-Methylcytosine	F	Н
CH ₃	O-amino acid	Н	O	8-Methyladenine	F	Н
CH ₃	O-amino acid	Н	0	8-Methylhypoxanthine	F	Н
CH ₃	O-amino acid	Н	O	5-Fluoro-6-Methyluracil	F	Н
CH ₃	O-amino acid	Н	O	5-Fluoro-6-Methylcytosine	F	Н
CH ₃	O-amino acid	Н	О	2-Fluoro-8-methyladenine	F	Н
CH ₃	O-amino acid	Н	O	2-Fluoro-8-methylhypoxanthine	F	Н
CH ₃	O-amino acid	Н	O	2-Amino-8-methyladenine	F	Н
CH ₃	O-amino acid	Н	O	2-Amino-8-methylhypoxanthine	F	Н
CH ₃	O-amino acid	Н	О	2-N-acetyl-8-methylguanine	F	Н
CH ₃	O-amino acid	Н	O	4-N-acetyl-8-methylcytosine	F	Н
CH ₃	O-amino acid	Н	О	6-N-acetyl-8-methyladenine	F	Н
CH ₃	O-amino acid	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	Н
CH ₃	O-amino acid	Н	O	6-N-acetyl-2-fluoro-8-methyladenine	F	Ĥ
CH ₃	O-amino acid	Н	O	6-N-acetyl-2-amino-8-methyladenine	F	Н
CH ₃	O-amino acid	Н	O	2-N-acetylamino-8-methyladenine	F	Н
CH ₃	O-amino acid	Н	O	2-N-acetylamino-8-	F	Н
				methylhypoxanthine		
CH ₃	O-amino acid	Н	0	6-Methylthymine	F	O-amino acid
CH ₃	O-amino acid	Н	0	6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	Н	0	8-Methylguanine	F	O-amino acid
CH ₃	O-amino acid	Н	O	6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Н	0	8-Methyladenine	F	O-amino acid
CH ₃	O-amino acid	Н	0	8-Methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Н	0	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	O-amino acid	Н	0	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Н	0	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Н	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Н	0	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Н	0	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	O-amino acid	Н	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	O-amino acid	Н	0	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	Н	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	O-amino acid	H	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Н	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Н	0	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	O-amino acid	Н	0	2-N-acetylamino-8-	F	O-amino acid
1				methylhypoxanthine		
CH ₃	O-amino acid	H	O	6-Methylthymine	F	O-acyl
CH ₃	O-amino acid	Н	0	6-Methyluracil	\overline{F}	O-acyl
CH ₃	O-amino acid	Н	O	8-Methylguanine	F	O-acyl

CH ₃ O-amino acid H O 6-Methyleytosine F O-acyl CH ₃ O-amino acid H O 8-Methylpadenine F O-acyl CH ₃ O-amino acid H O 8-Methylpypoxanthine F O-acyl CH ₃ O-amino acid H O 5-Fluoro-6-Methylcytosine F O-acyl CH ₃ O-amino acid H O 2-Fluoro-8-methylpypoxanthine F O-acyl CH ₃ O-amino acid H O 2-Fluoro-8-methylpypoxanthine F O-acyl CH ₃ O-amino acid H O 2-Fluoro-8-methylpypoxanthine F O-acyl CH ₃ O-amino acid H O 2-Amino-8-methylppoxanthine F O-acyl CH ₃ O-amino acid H O 2-Amino-8-methylppoxanthine F O-acyl CH ₃ O-amino acid H O 4-N-acetyl-8-methylpoxanthine F O-acyl CH ₃ O-amino acid H O 4-N-acetyl-5-fluoro-8-methylcytosine F O-acyl CH ₃ O-amino acid H	R ⁶	R^{7}	R ⁸	X	Base	R ¹⁰	R ⁹
CH3 O-amino acid H O 8-Methylhypoxanthine F O-acyl CH3 O-amino acid H O 5-Fluoro-6-Methylcytosine F O-acyl CH3 O-amino acid H O 2-Fluoro-8-methyladenine F O-acyl CH3 O-amino acid H O 2-Fluoro-8-methyladenine F O-acyl CH3 O-amino acid H O 2-Fluoro-8-methyladenine F O-acyl CH3 O-amino acid H O 2-Amino-8-methyladenine F O-acyl CH3 O-amino acid H O 2-Nacetyl-8-methylguanine F O-acyl CH4 O-amino acid H O 4-Nacetyl-8-methylguanine F O-acyl CH3 O-amino acid H O 6-Nacetyl-8-methylguanine F O-acyl CH3 O-amino acid H O 6-Nacetyl-5-fluoro-8-methyladenine F O-acyl CH3 O-amino acid H O	CH ₃	O-amino acid		О	<u> </u>		O-acyl
CH ₃ O-amino acid H O 5-Fluoro-6-Methyluracil F O-acyl CH ₃ O-amino acid H O 5-Fluoro-8-methyladenine F O-acyl CH ₃ O-amino acid H O 2-Fluoro-8-methylhypoxanthine F O-acyl CH ₃ O-amino acid H O 2-Fluoro-8-methylhypoxanthine F O-acyl CH ₃ O-amino acid H O 2-Amino-8-methyladenine F O-acyl CH ₃ O-amino acid H O 2-N-acetyl-8-methyladenine F O-acyl CH ₃ O-amino acid H O 4-N-acetyl-8-methyladenine F O-acyl CH ₃ O-amino acid H O 4-N-acetyl-8-methyladenine F O-acyl CH ₃ O-amino acid H O 6-N-acetyl-8-methyladenine F O-acyl CH ₃ O-amino acid H O 6-N-acetyl-2-amino-8-methyladenine F O-acyl CH ₃ O-amino acid	CH ₃	O-amino acid	Н	О	8-Methyladenine	F	O-acyl
CH ₃ O-amino acid H O 5-Fluoro-6-Methylcytosine F O-acyl CH ₃ O-amino acid H O 2-Fluoro-8-methyladenine F O-acyl CH ₃ O-amino acid H O 2-Fluoro-8-methylypoxanthine F O-acyl CH ₃ O-amino acid H O 2-Amino-8-methylpypoxanthine F O-acyl CH ₃ O-amino acid H O 2-Nacetyl-8-methylguanine F O-acyl CH ₃ O-amino acid H O 4-N-acetyl-8-methylguanine F O-acyl CH ₃ O-amino acid H O 4-N-acetyl-8-methylguanine F O-acyl CH ₃ O-amino acid H O 6-N-acetyl-8-methylguanine F O-acyl CH ₃ O-amino acid H O 6-N-acetyl-2-amino-8-methyladenine F O-acyl CH ₃ O-amino acid H O 6-N-acetyl-2-amino-8-methyladenine F O-acyl CH ₃ O-amino acid </td <td>CH₃</td> <td>O-amino acid</td> <td>Н</td> <td>О</td> <td></td> <td>F</td> <td>O-acyl</td>	CH ₃	O-amino acid	Н	О		F	O-acyl
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CH3 O-amino acid H O 2-Fluoro-8-methylhypoxanthine F O-acyl CH3 O-amino acid H O 2-Amino-8-methyladenine F O-acyl CH3 O-amino acid H O 2-Amino-8-methylhypoxanthine F O-acyl CH3 O-amino acid H O 2-N-acetyl-8-methyleytosine F O-acyl CH3 O-amino acid H O 4-N-acetyl-3-methyleytosine F O-acyl CH3 O-amino acid H O 6-N-acetyl-1-3-methyleytosine F O-acyl CH3 O-amino acid H O 6-N-acetyl-2-fluoro-8-methyleytosine F O-acyl CH3 O-amino acid H O 6-N-acetyl-2-amino-8-methyladenine F O-acyl CH3 O-amino acid H O 2-N-acetylamino-8-methyladenine F O-acyl CH3 O-amino acid H O 6-Methyltymaine F O-acyl CH3 O-amino acid H </td <td>CH₃</td> <td>O-amino acid</td> <td>Н</td> <td>О</td> <td>5-Fluoro-6-Methylcytosine</td> <td>F</td> <td>O-acyl</td>	CH ₃	O-amino acid	Н	О	5-Fluoro-6-Methylcytosine	F	O-acyl
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CH3 O-amino acid H O 2-Amino-8-methylhypoxanthine F O-acyl CH3 O-amino acid H O 2-N-acetyl-8-methylguanine F O-acyl CH3 O-amino acid H O 4-N-acetyl-8-methylgytosine F O-acyl CH3 O-amino acid H O 4-N-acetyl-5-fluoro-8-methylgytosine F O-acyl CH3 O-amino acid H O 6-N-acetyl-2-fluoro-8-methyladenine F O-acyl CH3 O-amino acid H O 6-N-acetyl-2-amino-8-methyladenine F O-acyl CH3 O-amino acid H O 2-N-acetylamino-8-methyladenine F O-acyl CH3 O-amino acid H O 6-Methylthymine F O-acyl CH3 O-amino acid H O 6-Methylthymine F OH CH3 O-amino acid H O 6-Methylthymine F OH CH3 O-amino acid H O	CH ₃	O-amino acid	Н	0	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH3 O-amino acid H O 2-N-acetyl-8-methylguanine F O-acyl CH3 O-amino acid H O 4-N-acetyl-8-methylcytosine F O-acyl CH3 O-amino acid H O 6-N-acetyl-18-methyladenine F O-acyl CH3 O-amino acid H O 6-N-acetyl-15-fluoro-8-methyladenine F O-acyl CH3 O-amino acid H O 6-N-acetyl-12-amino-8-methyladenine F O-acyl CH3 O-amino acid H O 2-N-acetylamino-8-methyladenine F O-acyl CH3 O-amino acid H O 2-N-acetylamino-8-methyladenine F O-acyl CH3 O-amino acid H O 6-Methyltypoxanthine F O-acyl CH3 O-amino acid H O 6-Methyltypoxanthine F OH CH3 O-amino acid H O 6-Methyltypoxanthine F OH CH3 O-amino acid H <t< td=""><td>CH₃</td><td>O-amino acid</td><td>Н</td><td>0</td><td>2-Amino-8-methyladenine</td><td>F</td><td>O-acyl</td></t<>	CH ₃	O-amino acid	Н	0	2-Amino-8-methyladenine	F	O-acyl
CH3 O-amino acid H O 4-N-acetyl-8-methylcytosine F O-acyl CH3 O-amino acid H O 6-N-acetyl-8-methyladenine F O-acyl CH3 O-amino acid H O 4-N-acetyl-5-fluoro-8-methyladenine F O-acyl CH3 O-amino acid H O 6-N-acetyl-2-fluoro-8-methyladenine F O-acyl CH3 O-amino acid H O 2-N-acetyl-2-amino-8-methyladenine F O-acyl CH3 O-amino acid H O 2-N-acetylamino-8-methyladenine F O-acyl CH3 O-amino acid H O 2-N-acetylamino-8-methyladenine F O-acyl CH3 O-amino acid H O 6-Methyltypoxanthine F O-acyl CH3 O-amino acid H O 6-Methyltyloxine F OH CH3 O-amino acid H O 8-Methylhypoxanthine F OH CH3 O-amino acid H	CH ₃	O-amino acid	Н	O	2-Amino-8-methylhypoxanthine	F	O-acyl
$ \begin{array}{c} CH_3 \text{O-amino acid} H O \text{6-N-acetyl-8-methyladenine} F \text{O-acyl} \\ CH_3 \text{O-amino acid} H O \text{4-N-acetyl-5-fluoro-8-methylcytosine} F \text{O-acyl} \\ CH_3 \text{O-amino acid} H O \text{6-N-acetyl-2-fluoro-8-methyladenine} F \text{O-acyl} \\ CH_3 \text{O-amino acid} H O \text{6-N-acetyl-2-amino-8-methyladenine} F \text{O-acyl} \\ CH_3 \text{O-amino acid} H O \text{6-N-acetyl-2-amino-8-methyladenine} F \text{O-acyl} \\ CH_3 \text{O-amino acid} H O \text{2-N-acetylamino-8-methyladenine} F \text{O-acyl} \\ \text{CH}_3 \text{O-amino acid} H O \text{6-Methylthymine} F \text{O-acyl} \\ \text{CH}_3 \text{O-amino acid} H O \text{6-Methylthymine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{6-Methyltyguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{8-Methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{8-Methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{8-Methylhypoxanthine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{8-Methylhypoxanthine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{8-Methylhypoxanthine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{5-Fluoro-6-Methylcytosine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{5-Fluoro-8-methylhypoxanthine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{2-Fluoro-8-methylhypoxanthine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{2-Amino-8-methylhypoxanthine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{2-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{2-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{4-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{4-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{4-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{4-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O \text{4-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 6-N-acetyl-2-a$	CH ₃	O-amino acid	Н	О	2-N-acetyl-8-methylguanine	F	O-acyl
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CH ₃	O-amino acid	Н	0	4-N-acetyl-8-methylcytosine	F	O-acyl
$ \begin{array}{c} CH_3 \text{O-amino acid} H O 4\text{-N-acetyl-5-fluoro-8-methylcytosine} F \text{O-acyl} \\ CH_3 \text{O-amino acid} H O 6\text{-N-acetyl-2-fluoro-8-methyladenine} F \text{O-acyl} \\ CH_3 \text{O-amino acid} H O 6\text{-N-acetyl-2-amino-8-methyladenine} F \text{O-acyl} \\ CH_3 \text{O-amino acid} H O 2\text{-N-acetylamino-8-methyladenine} F \text{O-acyl} \\ CH_3 \text{O-amino acid} H O 2\text{-N-acetylamino-8-methyladenine} F \text{O-acyl} \\ \text{CH}_3 \text{O-amino acid} H O 6\text{-Methylthymine} F \text{O-acyl} \\ \text{CH}_3 \text{O-amino acid} H O 6\text{-Methylthymine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 6\text{-Methyltymine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 8\text{-Methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 8\text{-Methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 8\text{-Methylypoxanthine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 8\text{-Methylhypoxanthine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 8\text{-Methylhypoxanthine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 5\text{-Fluoro-6-Methylcytosine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 2\text{-Fluoro-8-methyladenine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 2\text{-Fluoro-8-methyladenine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 2\text{-Pluoro-8-methylhypoxanthine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 2\text{-Amino-8-methylhypoxanthine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 2\text{-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 4\text{-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 4\text{-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 4\text{-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 4\text{-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 4\text{-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 4\text{-N-acetyl-8-methylguanine} F \text{OH} \\ \text{CH}_3 \text{O-amino acid} H O 6-N-acetyl-2-fluoro-8-methylg$	CH ₃	O-amino acid	Н	О		F	
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CH ₃ O-amino acid H O 2-N-acetylamino-8-methyladenine F OH CH ₃ O-amino acid H O 2-N-acetylamino-8-methyladenine F OH CH ₃ O-amino acid H O 6-Methylthymine Br H CH ₃ O-amino acid H O 6-Methyluracil Br H CH ₃ O-amino acid H O 8-Methylguanine Br H							
CH3O-amino acidHO2-N-acetylamino-8- methylhypoxanthineFOHCH3O-amino acidHO6-MethylthymineBrHCH3O-amino acidHO6-MethyluracilBrHCH3O-amino acidHO8-MethylguanineBrH							
CH3O-amino acidHO6-MethylthymineBrHCH3O-amino acidHO6-MethyluracilBrHCH3O-amino acidHO8-MethylguanineBrH				+			
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CH3O-amino acidHO6-MethyluracilBrHCH3O-amino acidHO8-MethylguanineBrH	CH ₃	O-amino acid	Н	О		Br	Н
CH ₃ O-amino acid H O 8-Methylguanine Br H				+			
L							
CH ₃ O-amino acid H O 6-Methylcytosine Br H				+	+ <u> </u>		
CH ₃ O-amino acid H O 8-Methyladenine Br H							
CH ₃ O-amino acid H O 8-Methylhypoxanthine Br H							
CH ₃ O-amino acid H O 5-Fluoro-6-Methyluracil Br H				-			
\`_\	CH ₃	O-amino acid	H	o	5-Fluoro-6-Methylcytosine	Br	Н

\mathbb{R}^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Н	О	2-Fluoro-8-methyladenine	Br	Н
CH ₃	O-amino acid	Н	О	2-Fluoro-8-methylhypoxanthine	Br	Н
CH ₃	O-amino acid	Н	О	2-Amino-8-methyladenine	Br	Н
CH ₃	O-amino acid	Н	O	2-Amino-8-methylhypoxanthine	Br	Н
CH ₃	O-amino acid	Н	О	2-N-acetyl-8-methylguanine	Br	Н
CH ₃	O-amino acid	Н	О	4-N-acetyl-8-methylcytosine	Br	Н
CH ₃	O-amino acid	Н	0	6-N-acetyl-8-methyladenine	Br	Н
CH ₃	O-amino acid	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	Н
CH ₃	O-amino acid	Н	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	Н
CH ₃	O-amino acid	Н	О	6-N-acetyl-2-amino-8-methyladenine	Br	Н
CH ₃	O-amino acid	Н	О	2-N-acetylamino-8-methyladenine	Br	Н
CH ₃	O-amino acid	Н	О	2-N-acetylamino-8-	Br	Н
				methylhypoxanthine		
CH ₃	O-amino acid	Н	O	6-Methylthymine	Br	O-amino acid
CH ₃	O-amino acid	Н	О	6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	Н	O	8-Methylguanine	Br	O-amino acid
CH ₃	O-amino acid	Н	О	6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Н	0	8-Methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Н	0	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Н	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	O-amino acid	Н	o	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Н	ō	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Н	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Н	Ō	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Н	0	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	O-amino acid	Н	0	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	O-amino acid	Н	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	Н	О	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Н	0	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid	Н	0	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	O-amino acid		O	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine		
CH ₃	O-amino acid	Н	O	6-Methylthymine	Br	O-acyl
CH ₃	O-amino acid	Н	0	6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	Н	O	8-Methylguanine	Br	O-acyl
CH ₃	O-amino acid	Н	O	6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Н	0	8-Methyladenine	Br	O-acyl
CH ₃	O-amino acid	Н	0	8-Methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	H	ō	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	O-amino acid	H	o	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	O-amino acid	H	o	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	H	o	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	Н	o	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Н	0	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	O-amino acid	H	0	2-N-acetyl-8-methylguanine	Br	O-acyl
C113		11	$\perp_{\mathcal{O}}$	2-14-accty1-o-memyiguanine	T DI	1 O-acyi

\mathbb{R}^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Н	О	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	Н	О	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	O-amino acid	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Н	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Н	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	O-amino acid	Н	О	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine		
CH ₃	O-amino acid	Н	O	6-Methylthymine	Br	OH
CH ₃	O-amino acid	Н	Ō	6-Methyluracil	Br	ОН
CH ₃	O-amino acid	Н	О	8-Methylguanine	Br	ОН
CH ₃	O-amino acid	Н	O	6-Methylcytosine	Br	ОН
CH ₃	O-amino acid	Н	Ō	8-Methyladenine	Br	ОН
CH ₃	O-amino acid	Н	O	8-Methylhypoxanthine	Br	ОН
CH ₃	O-amino acid	Н	O	5-Fluoro-6-Methyluracil	Br	OH
CH ₃	O-amino acid	H	o	5-Fluoro-6-Methylcytosine	Br	OH
CH ₃	O-amino acid	H	ō	2-Fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	H	o	2-Fluoro-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	H	o	2-Amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	H	ō	2-Amino-8-methylhypoxanthine	Br	OH
CH ₃	O-amino acid	Н	o	2-N-acetyl-8-methylguanine	Br	OH
CH ₃	O-amino acid	H	ō	4-N-acetyl-8-methylcytosine	Br	OH
CH ₃	O-amino acid	Н	o	6-N-acetyl-8-methyladenine	Br	OH
CH ₃	O-amino acid	H	o	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CH ₃	O-amino acid	H	o	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CH ₃	O-amino acid	H	0	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CH ₃	O-amino acid	Н	o	2-N-acetylamino-8-methyladenine	Br	OH
CH ₃	O-amino acid	H	ŏ	2-N-acetylamino-8-	Br	OH
0113		11		methylhypoxanthine	51	
CH ₃	O-amino acid	H	O	6-Methylthymine	Cl	H
CH ₃	O-amino acid	Н	O	6-Methyluracil	Cl	H
CH ₃	O-amino acid	H	ō	8-Methylguanine	Cl	H
CH ₃	O-amino acid	Н	$\frac{0}{0}$	6-Methylcytosine	Cl	H
CH ₃	O-amino acid	Н	0	8-Methyladenine	Cl	H
CH ₃	O-amino acid	H	0	8-Methylhypoxanthine	Cl	H
CH ₃	O-amino acid	H	0	5-Fluoro-6-Methyluracil	Cl	H
CH ₃	O-amino acid	H	0	5-Fluoro-6-Methylcytosine	CI	H
CH ₃	O-amino acid	H	0	2-Fluoro-8-methyladenine	CI	H
CH ₃	O-amino acid	Н	0	2-Fluoro-8-methylhypoxanthine	CI	Н
CH ₃	O-amino acid	Н	0	2-Amino-8-methyladenine	Cl	Н
CH ₃	O-amino acid	Н	0	2-Amino-8-methylhypoxanthine	Cl	Н
CH ₃	O-amino acid	Н	0	2-N-acetyl-8-methylguanine	Cl	Н
CH ₃	O-amino acid	Н	0		Cl	Н
	O-amino acid	Н	0	4-N-acetyl-8-methylcytosine	Cl	Н
CH ₃	O-amino acid		 	6-N-acetyl-8-methyladenine		
CH ₃		Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CH ₃	O-amino acid	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	C1	Н

R ⁶	\mathbf{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Н	0	2-N-acetylamino-8-methyladenine	Cl	Н
CH ₃	O-amino acid	H	0	2-N-acetylamino-8-	Cl	Н
				methylhypoxanthine		
CH ₃	O-amino acid	Н	O	6-Methylthymine	Cl	O-amino acid
CH ₃	O-amino acid	Н	О	6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	H	O	8-Methylguanine	Cl	O-amino acid
CH ₃	O-amino acid	H	0	6-Methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	H	0	8-Methyladenine	Cl .	O-amino acid
CH ₃	O-amino acid	H	O	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	O-amino acid	Н	О	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Н	0	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Н	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	Н	0	2-Amino-8-methyladenine	CI	O-amino acid
CH ₃	O-amino acid	H	0	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	O-amino acid	Н	O	2-N-acetyl-8-methylguanine	Cl_	O-amino acid
CH ₃	O-amino acid	H	0	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Н	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	Η.	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	O-amino acid	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	C1	O-amino acid
CH ₃	O-amino acid	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	H	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	O-amino acid	H	О	2-N-acetylamino-8-	Cl	O-amino acid
			<u> </u>	methylhypoxanthine		
CH ₃	O-amino acid	Н	О	6-Methylthymine	Cl	O-acyl
CH ₃	O-amino acid	Н	0	6-Methyluracil	CI	O-acyl
CH ₃	O-amino acid	Н	O	8-Methylguanine	Cl	O-acyl
CH ₃	O-amino acid	Н	O	6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	H	0	8-Methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Н	O	8-Methylhypoxanthine	C1	O-acyl
CH ₃	O-amino acid	H	0	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	O-amino acid	Н	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Н	О	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Н	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Н	<u> </u>	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Н	0	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	O-amino acid	Н	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	O-amino acid	Н	O	4-N-acetyl-8-methylcytosine	CI	O-acyl
CH ₃	O-amino acid	Н	O.	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	O-amino acid	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Н	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Н	О	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	O-amino acid	Н	О	2-N-acetylamino-8-	Cl	O-acyl
				methylhypoxanthine		
CH ₃	O-amino acid	Н	О	6-Methylthymine	Cl	ОН
CH ₃	O-amino acid	Н	О	6-Methyluracil	Cl	ОН

	\mathbf{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	Н	О	8-Methylguanine	Cl	OH
CH ₃	O-amino acid	Н	O	6-Methylcytosine	Cl	ОН
CH ₃	O-amino acid	H	О	8-Methyladenine	Cl	OH
CH ₃	O-amino acid	H	О	8-Methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	Н	О	5-Fluoro-6-Methyluracil	Cl	ОН
CH ₃	O-amino acid	Н	О	5-Fluoro-6-Methylcytosine	Cl	ОН
CH ₃	O-amino acid	Н	О	2-Fluoro-8-methyladenine	Cl	ОН
CH ₃	O-amino acid	.H	О	2-Fluoro-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	H	О	2-Amino-8-methyladenine	Cl	OH
CH ₃	O-amino acid	Н	О	2-Amino-8-methylhypoxanthine	Cl	OH
CH ₃	O-amino acid	Н	О	2-N-acetyl-8-methylguanine	Cl	OH
	O-amino acid	Н	О	4-N-acetyl-8-methylcytosine	Cl	ОН
	O-amino acid	Н	o	6-N-acetyl-8-methyladenine	Cl	ОН
	O-amino acid	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	ОН
	O-amino acid	Н	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
	O-amino acid	Н	O	6-N-acetyl-2-amino-8-methyladenine	Cl	ОН
	O-amino acid	Н	O	2-N-acetylamino-8-methyladenine	Cl	ОН
	O-amino acid	Н	O	2-N-acetylamino-8-	Cl	OH
				methylhypoxanthine]
CH ₃	O-amino acid	Н	O	6-Methylthymine	Н	H
	O-amino acid	H	O	6-Methyluracil	Н	Н
	O-amino acid	Н	O	8-Methylguanine	Н	Н
	O-amino acid	H	O	6-Methylcytosine	Н	H
	O-amino acid	H	O	8-Methyladenine	Н	H
	O-amino acid	Н	O	8-Methylhypoxanthine	Н	Н
	O-amino acid	Н	O	5-Fluoro-6-Methyluracil	Н	Н
	O-amino acid	Н	О	5-Fluoro-6-Methylcytosine	Н	H
	O-amino acid	Н	O	2-Fluoro-8-methyladenine	Н	Н
CH ₃	O-amino acid	Н	O	2-Fluoro-8-methylhypoxanthine	H	Н
CH ₃	O-amino acid	Н	O	2-Amino-8-methyladenine	Н	Н
CH ₃	O-amino acid	Н	О	2-Amino-8-methylhypoxanthine	H	Н
	O-amino acid	Н	O	2-N-acetyl-8-methylguanine	H	Н
	O-amino acid	Н		4-N-acetyl-8-methylcytosine	Н	Н
	O-amino acid	H	O	6-N-acetyl-8-methyladenine	H	H
	O-amino acid	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	Н	Н
	O-amino acid	Н	O	6-N-acetyl-2-fluoro-8-methyladenine	H	Н
	O-amino acid	Н	O	6-N-acetyl-2-amino-8-methyladenine	H	Н
	O-amino acid	Н	O	2-N-acetylamino-8-methyladenine	H	H
	O-amino acid	Н	O	2-N-acetylamino-8-	H	H
				methylhypoxanthine		1
CH ₃	O-amino acid	Н	0	6-Methylthymine	H	O-amino acid
	O-amino acid	Ĥ	O	6-Methyluracil	H	O-amino acid
	O-amino acid	Н	O	8-Methylguanine	Н	O-amino acid
	O-amino acid	Н	Ō	6-Methylcytosine	H	O-amino acid
	O-amino acid	Н	0	8-Methyladenine	H	O-amino acid
	O-amino acid	Н	O	8-Methylhypoxanthine	H	O-amino acid
	O-amino acid	Н	O	5-Fluoro-6-Methyluracil	H	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	O-amino acid	H	О	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	H	О	2-Fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Н	0	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-amino acid	Н	О	2-Amino-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Н	0	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CH ₃	O-amino acid	Н	0	2-N-acetyl-8-methylguanine	Н	O-amino acid
CH ₃	O-amino acid	H	0	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	Н	0	6-N-acetyl-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CH ₃	O-amino acid	Н	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Н	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Н	0	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CH ₃	O-amino acid	Н	0	2-N-acetylamino-8-	Н	O-amino acid
0115			_	methylhypoxanthine	}	
CH ₃	O-amino acid	Н	O	6-Methylthymine	Н	O-acyl
CH ₃	O-amino acid	H	ŏ	6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	Н	ō	8-Methylguanine	H	O-acyl
CH ₃	O-amino acid	H	ō	6-Methylcytosine	Н	O-acyl
CH ₃	O-amino acid	Н	o	8-Methyladenine	Н	O-acyl
CH ₃	O-amino acid	H	o	8-Methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	H	ō	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	O-amino acid	H	ō	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	O-amino acid	H	o	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	H	ō	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	H	ō	2-Amino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	H	ō	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	O-amino acid	H	ō	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	O-amino acid	H	ō	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	O-amino acid	H	o	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	Н	o	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	O-amino acid	H	o	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	H	o	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	H	0	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	O-amino acid	H	o	2-N-acetylamino-8-	H	O-acyl
	o unimo uoid	**		methylhypoxanthine	111	
CH ₃	O-amino acid	H	O	6-Methylthymine	Н	ОН
CH ₃	O-amino acid	H	o	6-Methyluracil	H	OH
CH ₃	O-amino acid	H	$\frac{0}{0}$	8-Methylguanine	H	OH
CH ₃	O-amino acid	H	0	6-Methylcytosine	H	OH
CH ₃	O-amino acid	H	0	8-Methyladenine	H	OH
CH ₃	O-amino acid	H	$\frac{0}{0}$	8-Methylhypoxanthine	H	OH
CH ₃	O-amino acid	H	0	5-Fluoro-6-Methyluracil	H	OH
CH ₃	O-amino acid	H	0	5-Fluoro-6-Methylcytosine	H	OH
CH ₃	O-amino acid	H	0	2-Fluoro-8-methyladenine	H	OH
CH ₃	O-amino acid	H	0	2-Fluoro-8-methylhypoxanthine	H	OH
CH ₃	O-amino acid	H	0	2-Amino-8-methyladenine	H	OH
CH ₃	O-amino acid	Н	0	2-Anino-8-methyladennie	$\frac{\Pi}{H}$	OH
СПЗ	O-animo acid		Ļ U	2-Annio-o-memymypoxanumie	111	ОП

CH3OHFO6-MethyluracilFO-amino acidCH3OHFO8-MethylguanineFO-amino acidCH3OHFO6-MethylcytosineFO-amino acidCH3OHFO8-MethyladenineFO-amino acidCH3OHFO8-MethylhypoxanthineFO-amino acidCH3OHFO5-Fluoro-6-MethyluracilFO-amino acidCH3OHFO2-Fluoro-8-methyladenineFO-amino acidCH3OHFO2-Fluoro-8-methylhypoxanthineFO-amino acidCH3OHFO2-Amino-8-methylhypoxanthineFO-amino acidCH3OHFO2-Amino-8-methylhypoxanthineFO-amino acidCH3OHFO2-Amino-8-methylhypoxanthineFO-amino acidCH3OHFO2-N-acetyl-8-methylguanineFO-amino acid	R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃ O-amino acid H O 6-N-acetyl-8-methyladenine H OH CH ₃ O-amino acid H O 4-N-acetyl-2-fluoro-8-methyladenine H OH CH ₃ O-amino acid H O 6-N-acetyl-2-fluoro-8-methyladenine H OH CH ₃ O-amino acid H O 2-N-acetylamino-8-methyladenine H OH CH ₃ O-amino acid H O 2-N-acetylamino-8-methyladenine H OH CH ₃ O-amino acid H O 6-Methyling OH H OH CH ₃ O-amino acid H O 6-Methyling OH H OH	CH ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	H	ОН
CH ₃ O-amino acid H O 4-N-acetyl-5-fluoro-8-methyladenine H OH CH ₃ O-amino acid H O 6-N-acetyl-2-fluoro-8-methyladenine H OH CH ₃ O-amino acid H O 6-N-acetyl-2-amino-8-methyladenine H OH CH ₃ O-amino acid H O 2-N-acetylamino-8-methyladenine H OH CH ₃ O-amino acid H O 2-N-acetylamino-8-methyladenine H OH CH ₃ O-amino acid H O 6-Methylippoxanthine OH H CH ₃ O-amino acid H O 6-Methylippoxanthine OH H CH ₃ O-amino acid H O 8-Methyladenine OH H CH ₃ O-amino acid H O 8-Methyladenine OH H CH ₃ O-amino acid H O 8-Methyladenine OH H CH ₃ O-amino acid H O 2-Fluoro-8-	CH ₃	O-amino acid	H	Ō	4-N-acetyl-8-methylcytosine	Н	ОН
CH ₃ O-amino acid H O 6-N-acetyl-2-fluoro-8-methyladenine H OH CH ₃ O-amino acid H O 6-N-acetyl-2-amino-8-methyladenine H OH CH ₃ O-amino acid H O 2-N-acetylamino-8-methyladenine H OH CH ₃ O-amino acid H O 6-Methylthymine OH H CH ₃ O-amino acid H O 6-Methylthymine OH H CH ₃ O-amino acid H O 6-Methylthymine OH H CH ₃ O-amino acid H O 6-Methylthymine OH H CH ₃ O-amino acid H O 8-Methylthymine OH H CH ₃ O-amino acid H O 8-Methyltycytosine OH H CH ₃ O-amino acid H O 8-Methyltycytosine OH H CH ₃ O-amino acid H O 5-Fluoro-8-methyltycytosine OH <td>CH₃</td> <td>O-amino acid</td> <td>Н</td> <td>O</td> <td>6-N-acetyl-8-methyladenine</td> <td>Н</td> <td>ОН</td>	CH ₃	O-amino acid	Н	O	6-N-acetyl-8-methyladenine	Н	ОН
CH3 O-amino acid H O 6-N-acetyl-2-amino-8-methyladenine H OH CH3 O-amino acid H O 2-N-acetylamino-8-methyladenine H OH CH3 O-amino acid H O 2-N-acetylamino-8-methyladenine H OH CH3 O-amino acid H O 6-Methyltymine OH H CH3 O-amino acid H O 6-Methyltypoxanthine OH H CH3 O-amino acid H O 6-Methyltypoxanthine OH H CH3 O-amino acid H O 8-Methyltypoxanthine OH H CH3 O-amino acid H O 8-Methyltypoxanthine OH H CH3 O-amino acid H O 8-Fluoro-6-Methyltypoxanthine OH H CH3 O-amino acid H O 2-Fluoro-8-methyltypoxanthine OH H CH3 O-amino acid H O 2-Fluoro-8-methyltypoxanthine	CH ₃	O-amino acid	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	ОН
CH3 O-amino acid H O 2-N-acetylamino-8-methyladenine H OH CH3 O-amino acid H O 2-N-acetylamino-8-methyladenine H OH CH3 O-amino acid H O 6-Methyluracil OH H CH3 O-amino acid H O 8-Methyluracil OH H CH3 O-amino acid H O 5-Fluoro-6-Methyluracil OH H CH3 O-amino acid H O 5-Fluoro-6-Methyluracil OH H CH3 O-amino acid H O 2-Fluoro-6-Methyluracil OH H CH3 O-amino acid H O 2-Fluoro-6-Methyluycoxine OH H	CH ₃	O-amino acid	Н	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	ОН
CH3 O-amino acid H O 2-N-acetylamino-8-methylhypoxanthine H OH CH3 O-amino acid H O 6-Methylthymine OH H CH3 O-amino acid H O 6-Methylthymine OH H CH3 O-amino acid H O 8-Methylguanine OH H CH3 O-amino acid H O 6-Methylgytosine OH H CH3 O-amino acid H O 8-Methyladenine OH H CH3 O-amino acid H O 8-Methyladenine OH H CH3 O-amino acid H O 5-Fluoro-6-Methyleytosine OH H CH3 O-amino acid H O 2-Fluoro-8-methyleytosine OH H CH3 O-amino acid H O 2-Fluoro-8-methyleytosine OH H CH3 O-amino acid H O 2-Naicetyl-s-methylgoxanthine OH H <td>CH₃</td> <td>O-amino acid</td> <td>Н</td> <td>О</td> <td>6-N-acetyl-2-amino-8-methyladenine</td> <td>Н</td> <td>ОН</td>	CH ₃	O-amino acid	Н	О	6-N-acetyl-2-amino-8-methyladenine	Н	ОН
CH3 O-amino acid H O 6-Methylthymine OH H CH3 O-amino acid H O 6-Methylthymine OH H CH3 O-amino acid H O 8-Methylaganine OH H CH3 O-amino acid H O 8-Methylagonine OH H CH3 O-amino acid H O 5-Fluoro-6-Methylagonine OH H CH3 O-amino acid H O 2-Fluoro-8-methylagonine OH H CH3 O-amino acid H O 2-Fluoro-8-methylagonine OH H CH3 O-amino acid H O 2-N-acetyl-8-methylagonine OH H CH3 </td <td>CH₃</td> <td>O-amino acid</td> <td>Н</td> <td>О</td> <td>2-N-acetylamino-8-methyladenine</td> <td>H</td> <td>ОН</td>	CH ₃	O-amino acid	Н	О	2-N-acetylamino-8-methyladenine	H	ОН
CH ₃ O-amino acid H O 6-Methylthymine OH H CH ₃ O-amino acid H O 6-Methyluracil OH H CH ₃ O-amino acid H O 8-Methylguanine OH H CH ₃ O-amino acid H O 8-Methylgyoxanthine OH H CH ₃ O-amino acid H O 8-Methylgyoxanthine OH H CH ₃ O-amino acid H O 8-Methylgyoxanthine OH H CH ₃ O-amino acid H O 5-Fluoro-6-Methylcytosine OH H CH ₃ O-amino acid H O 2-Fluoro-8-methylcytosine OH H CH ₃ O-amino acid H O 2-Fluoro-8-methyladenine OH H CH ₃ O-amino acid H O 2-Nacetyl-8-methyladenine OH H CH ₃ O-amino acid H O 4-Nacetyl-8-methylcytosine OH <t< td=""><td>CH₃</td><td>O-amino acid</td><td>Н</td><td>О</td><td>2-N-acetylamino-8-</td><td>H</td><td>ОН</td></t<>	CH ₃	O-amino acid	Н	О	2-N-acetylamino-8-	H	ОН
CH3 O-amino acid H O 6-Methyluracil OH H CH3 O-amino acid H O 8-Methylguanine OH H CH3 O-amino acid H O 6-Methylcytosine OH H CH3 O-amino acid H O 8-Methylhypoxanthine OH H CH3 O-amino acid H O 8-Methylhypoxanthine OH H CH3 O-amino acid H O 5-Fluoro-6-Methylcytosine OH H CH3 O-amino acid H O 2-Fluoro-8-methyladenine OH H CH3 O-amino acid H O 2-Fluoro-8-methyladenine OH H CH3 O-amino acid H O 2-Fluoro-8-methyladenine OH H CH3 O-amino acid H O 2-N-acetyl-8-methyladenine OH H CH3 O-amino acid H O 4-N-acetyl-8-methyladenine OH H <	'				methylhypoxanthine	1	
CH3 O-amino acid H O 8-Methylguanine OH H CH3 O-amino acid H O 6-Methylcytosine OH H CH3 O-amino acid H O 8-Methylhypoxanthine OH H CH3 O-amino acid H O 8-Methylhypoxanthine OH H CH3 O-amino acid H O 5-Fluoro-6-Methylcytosine OH H CH3 O-amino acid H O 5-Fluoro-8-methyladenine OH H CH3 O-amino acid H O 2-Fluoro-8-methyladenine OH H CH3 O-amino acid H O 2-Fluoro-8-methyladenine OH H CH3 O-amino acid H O 2-Amino-8-methyladenine OH H CH3 O-amino acid H O 4-N-acetyl-8-methyladenine OH H CH3 O-amino acid H O 4-N-acetyl-18-methyladenine OH H<	CH ₃	O-amino acid	H	O	6-Methylthymine	OH	Н
CH3 O-amino acid H O 6-Methylcytosine OH H CH3 O-amino acid H O 8-Methyladenine OH H CH3 O-amino acid H O 8-Methylhypoxanthine OH H CH3 O-amino acid H O 5-Fluoro-6-Methylcytosine OH H CH3 O-amino acid H O 2-Fluoro-8-methyladenine OH H CH3 O-amino acid H O 2-Fluoro-8-methyladenine OH H CH3 O-amino acid H O 2-Fluoro-8-methyladenine OH H CH3 O-amino acid H O 2-Amino-8-methyladenine OH H CH3 O-amino acid H O 2-N-acetyl-8-methylgyanaine OH H CH3 O-amino acid H O 4-N-acetyl-8-methyladenine OH H CH3 O-amino acid H O 6-N-acetyl-8-methyladenine OH	CH ₃	O-amino acid	Н	Ó	6-Methyluracil	OH	Н
CH ₃ O-amino acid H O 8-Methyladenine OH H CH ₃ O-amino acid H O 8-Methylhypoxanthine OH H CH ₃ O-amino acid H O 5-Fluoro-6-Methyluracil OH H CH ₃ O-amino acid H O 5-Fluoro-8-methyladenine OH H CH ₃ O-amino acid H O 2-Fluoro-8-methyladenine OH H CH ₃ O-amino acid H O 2-Fluoro-8-methyladenine OH H CH ₃ O-amino acid H O 2-Amino-8-methyladenine OH H CH ₃ O-amino acid H O 2-N-acetyl-8-methyladenine OH H CH ₃ O-amino acid H O 4-N-acetyl-8-methyladenine OH H CH ₃ O-amino acid H O 4-N-acetyl-8-methyladenine OH H CH ₃ O-amino acid H O 4-N-acetyl-5-fluoro-8-methylade	CH ₃	O-amino acid	Н	О	8-Methylguanine	ОН	Н
CH3 O-amino acid H O 8-Methylhypoxanthine OH H CH3 O-amino acid H O 5-Fluoro-6-Methyluracil OH H CH3 O-amino acid H O 5-Fluoro-8-methyladenine OH H CH3 O-amino acid H O 2-Fluoro-8-methyladenine OH H CH3 O-amino acid H O 2-Fluoro-8-methyladenine OH H CH3 O-amino acid H O 2-Amino-8-methyladenine OH H CH3 O-amino acid H O 2-N-acetyl-8-methylguanine OH H CH3 O-amino acid H O 4-N-acetyl-8-methylguanine OH H CH3 O-amino acid H O 4-N-acetyl-8-methylguanine OH H CH3 O-amino acid H O 6-N-acetyl-8-methylguanine OH H CH3 O-amino acid H O 6-N-acetyl-1-gluoro-8-methyladenine	CH ₃	O-amino acid	Н	О	6-Methylcytosine	OH	Н
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R ⁶	\mathbf{R}^7	R ⁸	X	Base	\mathbb{R}^{10}	R ⁹
	OH	F	О	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	OH	F	О	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	ОН	F	О	2-N-acetylamino-8-	F	O-amino acid
				methylhypoxanthine		
	OH	F	О	6-Methylthymine	F	O-acyl
CH ₃	OH	F	Ο	6-Methyluracil	F	O-acyl
CH ₃	ОН	F	О	8-Methylguanine	F	O-acyl
CH ₃	OH _	F	О	6-Methylcytosine	F	O-acyl
CH ₃	ОН	F	О	8-Methyladenine	F	O-acyl
CH ₃	OH	F	O	8-Methylhypoxanthine	F	O-acyl
CH ₃	OH	F	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	ОН	F	О	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	ÓН	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	OH	F	О	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	F	О	2-Amino-8-methyladenine	F	O-acyl
CH ₃	ÓН	F	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	ОН	F	0	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	ŌН	F	О	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	ОН	F	0	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	ОН	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	ОН	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	ОН	F	О	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	ОН	F	О	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	OH	F	0	2-N-acetylamino-8-	F	O-acyl
				methylhypoxanthine		
CH ₃	ОН	F	О	6-Methylthymine	Br	O-amino acid
CH ₃	OH	F	О	6-Methyluracil	Br	O-amino acid
CH ₃	ОН	F	О	8-Methylguanine	Br	O-amino acid
CH ₃	ОН	F	О	6-Methylcytosine	Br	O-amino acid
CH ₃	ОН	F	0	8-Methyladenine	Br	O-amino acid
CH ₃	ОН	F	О	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	ОН	F	О	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	ОН	F	О	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	ОН	F	О	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	ОН	F ⁽	0	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	ОН	F	О	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	OH	F	О	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	ОН	F	0	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	ОН	F	О	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	OH	F	О	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	ОН	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	OH	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	OH	F	О	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	OH	F	O	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine		
CH ₃	OH	F	О	6-Methylthymine	Br	O-acyl

CH3 OH F O 8-Methylguanine Br C CH3 OH F O 6-Methylcytosine Br C CH3 OH F O 8-Methyladenine Br C CH3 OH F O 8-Methylhypoxanthine Br C CH3 OH F O 5-Fluoro-6-Methylyracil Br C CH3 OH F O 5-Fluoro-6-Methylcytosine Br C CH3 OH F O 2-Fluoro-8-methyladenine Br C CH3 OH F O 2-Fluoro-8-methyladenine Br C CH3 OH F O 2-Amino-8-methyladenine Br C CH3 OH F O 2-N-acetyl-8-methylguanine Br C CH3 OH F O 4-N-acetyl-8-methylguanine Br C CH3 OH F O 4-	O-acyl O-acyl
CH3 OH F O 6-Methylcytosine Br C CH3 OH F O 8-Methyladenine Br C CH3 OH F O 8-Methylhypoxanthine Br C CH3 OH F O 5-Fluoro-6-Methyluracil Br C CH3 OH F O 5-Fluoro-6-Methyluracil Br C CH3 OH F O 5-Fluoro-6-Methyluracil Br C CH3 OH F O 2-Fluoro-8-methyladenine Br C CH3 OH F O 2-Fluoro-8-methyladenine Br C CH3 OH F O 2-Amino-8-methyladenine Br C CH3 OH F O 4-N-acetyl-8-methyladenine Br C CH3 OH F O 4-N-acetyl-8-methyladenine Br C CH3 OH F O	O-acyl O-acyl
CH3 OH F O 8-Methyladenine Br C CH3 OH F O 8-Methylhypoxanthine Br C CH3 OH F O 5-Fluoro-6-Methyluracil Br C CH3 OH F O 5-Fluoro-8-methyluracil Br C CH3 OH F O 2-Fluoro-8-methyladenine Br C CH3 OH F O 2-Fluoro-8-methyladenine Br C CH3 OH F O 2-Amino-8-methyladenine Br C CH3 OH F O 2-Amino-8-methyladenine Br C CH3 OH F O 2-N-acetyl-8-methyloytosine Br C CH3 OH F O 4-N-acetyl-8-methyloytosine Br C CH3 OH F O 6-N-acetyl-8-methyloytosine Br C CH3 OH F O<	D-acyl D-acyl
CH3 OH F O 8-Methylhypoxanthine Br C CH3 OH F O 5-Fluoro-6-Methyluracil Br C CH3 OH F O 5-Fluoro-6-Methyluracil Br C CH3 OH F O 2-Fluoro-8-methyladenine Br C CH3 OH F O 2-Fluoro-8-methylypoxanthine Br C CH3 OH F O 2-Amino-8-methylypoxanthine Br C CH3 OH F O 2-Amino-8-methylypoxanthine Br C CH3 OH F O 2-N-acetyl-8-methylguanine Br C CH3 OH F O 4-N-acetyl-8-methylguanine Br C CH3 OH F O 6-N-acetyl-8-methylguanine Br C CH3 OH F O 6-N-acetyl-8-methyladenine Br C CH3 OH F	O-acyl O-acyl
CH3 OH F O 5-Fluoro-6-Methyluracil Br C CH3 OH F O 5-Fluoro-6-Methyluracil Br C CH3 OH F O 2-Fluoro-8-methyladenine Br C CH3 OH F O 2-Fluoro-8-methyladenine Br C CH3 OH F O 2-Amino-8-methyladenine Br C CH3 OH F O 2-Amino-8-methyladenine Br C CH3 OH F O 2-N-acetyl-8-methyladenine Br C CH3 OH F O 4-N-acetyl-8-methyladenine Br C CH3 OH F O 4-N-acetyl-8-methyladenine Br C CH3 OH F O 4-N-acetyl-8-methyladenine Br C CH3 OH F O 6-N-acetyl-9-amino-8-methyladenine Br C CH3 OH <td< td=""><td>O-acyl O-acyl /td></td<>	O-acyl O-acyl
CH3 OH F O 5-Fluoro-6-Methylcytosine Br C CH3 OH F O 2-Fluoro-8-methyladenine Br C CH3 OH F O 2-Fluoro-8-methylhypoxanthine Br C CH3 OH F O 2-Amino-8-methylhypoxanthine Br C CH3 OH F O 2-Amino-8-methylhypoxanthine Br C CH3 OH F O 2-Amino-8-methylhypoxanthine Br C CH3 OH F O 2-N-acetyl-8-methylgytosine Br C CH3 OH F O 4-N-acetyl-8-methyladenine Br C CH3 OH F O 4-N-acetyl-8-methyladenine Br C CH3 OH F O 6-N-acetyl-8-methyladenine Br C CH3 OH F O 6-N-acetyl-9-fluoro-8-methyladenine Br C CH3	O-acyl O-acyl
CH3 OH F O 5-Fluoro-6-Methylcytosine Br C CH3 OH F O 2-Fluoro-8-methyladenine Br C CH3 OH F O 2-Fluoro-8-methylhypoxanthine Br C CH3 OH F O 2-Amino-8-methylhypoxanthine Br C CH3 OH F O 2-Amino-8-methylhypoxanthine Br C CH3 OH F O 2-Amino-8-methylhypoxanthine Br C CH3 OH F O 2-N-acetyl-8-methyloytosine Br C CH3 OH F O 4-N-acetyl-8-methyladenine Br C CH3 OH F O 4-N-acetyl-8-methyladenine Br C CH3 OH F O 6-N-acetyl-1-fluoro-8-methyladenine Br C CH3 OH F O 6-N-acetyl-2-fluoro-8-methyladenine Br C CH3 <td>O-acyl O-acyl /td>	O-acyl O-acyl
CH3 OH F O 2-Fluoro-8-methyladenine Br C CH3 OH F O 2-Fluoro-8-methylhypoxanthine Br C CH3 OH F O 2-Amino-8-methylhypoxanthine Br C CH3 OH F O 2-Amino-8-methylhypoxanthine Br C CH3 OH F O 2-N-acetyl-8-methylguanine Br C CH3 OH F O 4-N-acetyl-8-methylguanine Br C CH3 OH F O 6-N-acetyl-8-methylguanine Br C CH3 OH F O 6-N-acetyl-2-fluoro-8-methylgutenine Br C CH3	O-acyl O-acyl
CH3 OH F O 2-Fluoro-8-methylhypoxanthine Br C CH3 OH F O 2-Amino-8-methyladenine Br C CH3 OH F O 2-Amino-8-methylhypoxanthine Br C CH3 OH F O 2-N-acetyl-8-methylguanine Br C CH3 OH F O 4-N-acetyl-8-methylguanine Br C CH3 OH F O 6-N-acetyl-8-methyladenine Br C CH3 OH F O 6-N-acetyl-8-methyladenine Br C CH3 OH F O 6-N-acetyl-8-methyladenine Br C CH3 OH F O 6-N-acetyl-2-methyladenine Br C CH3 OH F O 6-N-acetyl-2-fluoro-8-methyladenine Br C CH3 OH F O 6-N-acetyl-2-amino-8-methyladenine Br C CH3	O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl
CH ₃ OH F O 2-Amino-8-methylhypoxanthine Br C CH ₃ OH F O 2-N-acetyl-8-methylguanine Br C CH ₃ OH F O 4-N-acetyl-8-methylcytosine Br C CH ₃ OH F O 6-N-acetyl-8-methylcytosine Br C CH ₃ OH F O 4-N-acetyl-8-methylcytosine Br C CH ₃ OH F O 4-N-acetyl-5-fluoro-8-methylcytosine Br C CH ₃ OH F O 6-N-acetyl-2-fluoro-8-methyladenine Br C CH ₃ OH F O 6-N-acetyl-2-amino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8-methyladenine Br C CH ₃ OH F O 6-Methylthymine CI C CH ₃ OH F O 6-Methylthymine CI C CH ₃ OH F O 8-Methylguanine CI C CH ₃ OH F O 8-Methylguanine CI C CH ₃ OH F O 8-Methylguanine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 5-Fluoro-6-Methylcytosine CI C	O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl
CH ₃ OH F O 2-Amino-8-methylhypoxanthine Br C CH ₃ OH F O 2-N-acetyl-8-methylguanine Br C CH ₃ OH F O 4-N-acetyl-8-methylcytosine Br C CH ₃ OH F O 6-N-acetyl-8-methylcytosine Br C CH ₃ OH F O 4-N-acetyl-8-methylcytosine Br C CH ₃ OH F O 4-N-acetyl-5-fluoro-8-methylcytosine Br C CH ₃ OH F O 6-N-acetyl-2-fluoro-8-methyladenine Br C CH ₃ OH F O 6-N-acetyl-2-amino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8-methyladenine Br C CH ₃ OH F O 6-Methylthymine CI C CH ₃ OH F O 6-Methylthymine CI C CH ₃ OH F O 8-Methylguanine CI C CH ₃ OH F O 8-Methylguanine CI C CH ₃ OH F O 8-Methylguanine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 8-Methylpypoxanthine CI C CH ₃ OH F O 5-Fluoro-6-Methylcytosine CI C	O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl
CH ₃ OH F O 2-N-acetyl-8-methylguanine Br C CH ₃ OH F O 4-N-acetyl-8-methylcytosine Br C CH ₃ OH F O 6-N-acetyl-8-methyladenine Br C CH ₃ OH F O 4-N-acetyl-8-methyladenine Br C CH ₃ OH F O 4-N-acetyl-5-fluoro-8-methylcytosine Br C CH ₃ OH F O 6-N-acetyl-2-fluoro-8-methyladenine Br C CH ₃ OH F O 6-N-acetyl-2-amino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8-methyladenine Br C CH ₃ OH F O 6-Methylthymine Cl C CH ₃ OH F O 6-Methylthymine Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 8-Methyladenine Cl C CH ₃ OH F O 8-Methyladenine Cl C CH ₃ OH F O 8-Methyladenine Cl C CH ₃ OH F O 8-Methylpoxanthine Cl C CH ₃ OH F O 8-Methylpoxanthine Cl C CH ₃ OH F O 8-Methylpoxanthine Cl C CH ₃ OH F O 8-Methylpoxanthine Cl C CH ₃ OH F O 8-Methylpoxanthine Cl C CH ₃ OH F O 5-Fluoro-6-Methylcytosine Cl C	O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl
CH ₃ OH F O 4-N-acetyl-8-methylcytosine Br C CH ₃ OH F O 6-N-acetyl-8-methyladenine Br C CH ₃ OH F O 4-N-acetyl-5-fluoro-8-methylcytosine Br C CH ₃ OH F O 6-N-acetyl-2-fluoro-8-methyladenine Br C CH ₃ OH F O 6-N-acetyl-2-amino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8-methyladenine Br C CH ₃ OH F O 6-Methylthymine Cl C CH ₃ OH F O 6-Methylthymine Cl C CH ₃ OH F O 8-Methylguanine Cl C	O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl
CH ₃ OH F O 6-N-acetyl-8-methyladenine Br C CH ₃ OH F O 4-N-acetyl-5-fluoro-8-methylcytosine Br C CH ₃ OH F O 6-N-acetyl-2-fluoro-8-methyladenine Br C CH ₃ OH F O 6-N-acetyl-2-amino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8-methyladenine Br C CH ₃ OH F O 6-Methylthymine CI C CH ₃ OH F O 6-Methylthymine CI C CH ₃ OH F O 6-Methyluracil CI C CH ₃ OH F O 8-Methylguanine CI C CH ₃ OH F O 8-Methylguanine CI C CH ₃ OH F O 8-Methyladenine CI C CH ₃ OH F O 8-Methyladenine CI C CH ₃ OH F O 8-Methyladenine CI C CH ₃ OH F O 8-Methylpoxanthine CI C CH ₃ OH F O 8-Methylpoxanthine CI C CH ₃ OH F O 8-Methylpoxanthine CI C CH ₃ OH F O 5-Fluoro-6-Methylcytosine CI C CH ₃ OH F O 5-Fluoro-6-Methylcytosine CI C	O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl
CH3OHFO4-N-acetyl-5-fluoro-8-methylcytosineBrCCH3OHFO6-N-acetyl-2-fluoro-8-methyladenineBrCCH3OHFO6-N-acetyl-2-amino-8-methyladenineBrCCH3OHFO2-N-acetylamino-8-methyladenineBrCCH3OHFO6-MethylthymineCICCH3OHFO6-MethylthymineCICCH3OHFO6-MethylguanineCICCH3OHFO8-MethylguanineCICCH3OHFO8-MethyladenineCICCH3OHFO8-MethylhypoxanthineCICCH3OHFO8-MethylhypoxanthineCICCH3OHFO5-Fluoro-6-MethyluracilCICCH3OHFO5-Fluoro-6-MethylcytosineCIC	O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl
CH ₃ OH F O 6-N-acetyl-2-fluoro-8-methyladenine Br C CH ₃ OH F O 6-N-acetyl-2-amino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8- methylhypoxanthine CH ₃ OH F O 6-Methylthymine Cl C CH ₃ OH F O 6-Methyluracil Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 6-Methylcytosine Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 8-Methyladenine Cl C CH ₃ OH F O 8-Methyladenine Cl C CH ₃ OH F O 8-Methylpoxanthine Cl C CH ₃ OH F O 8-Methylpoxanthine Cl C CH ₃ OH F O 8-Methylpoxanthine Cl C CH ₃ OH F O 5-Fluoro-6-Methylcytosine Cl C C CH ₃ OH F O 5-Fluoro-6-Methylcytosine Cl C	O-acyl O-acyl O-acyl O-acyl O-acyl O-acyl
CH3OHFO6-N-acetyl-2-amino-8-methyladenineBrCCH3OHFO2-N-acetylamino-8-methyladenineBrCCH3OHFO2-N-acetylamino-8-methyladenineBrCCH3OHFO6-MethylthymineClCCH3OHFO6-MethyluracilClCCH3OHFO8-MethylguanineClCCH3OHFO8-MethyladenineClCCH3OHFO8-MethyladenineClCCH3OHFO8-MethylhypoxanthineClCCH3OHFO5-Fluoro-6-MethyluracilClCCH3OHFO5-Fluoro-6-MethylcytosineClC	O-acyl O-acyl O-acyl O-amino acid
CH ₃ OH F O 2-N-acetylamino-8-methyladenine Br C CH ₃ OH F O 2-N-acetylamino-8- methylhypoxanthine CH ₃ OH F O 6-Methylthymine Cl C CH ₃ OH F O 6-Methyluracil Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 6-Methylcytosine Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 8-Methylguanine Cl C CH ₃ OH F O 5-Fluoro-6-Methylguacil Cl C C CH ₃ OH F O 5-Fluoro-6-Methylguacil Cl C C C C C C C C C C C C C C C C C C	O-acyl O-amino acid
CH ₃ OH F O 2-N-acetylamino-8-methylhypoxanthine Br C CH ₃ OH F O 6-Methylthymine CI C CH ₃ OH F O 6-Methyluracil CI C CH ₃ OH F O 8-Methylguanine CI C CH ₃ OH F O 8-Methyladenine CI C CH ₃ OH F O 8-Methylhypoxanthine CI C CH ₃ OH F O 5-Fluoro-6-Methyluracil CI C CH ₃ OH F O 5-Fluoro-6-Methylcytosine CI C	O-acyl O-amino acid
CH3 OH F O 6-Methylthymine CI CC CH3 OH F O 6-Methyluracil CI CC CH3 OH F O 8-Methylguanine CI CC CH3 OH F O 6-Methylcytosine CI CC CH3 OH F O 8-Methyladenine CI CC CH3 OH F O 8-Methylhypoxanthine CI CC CH3 OH F O 5-Fluoro-6-Methyluracil CI CC CH3 OH F O 5-Fluoro-6-Methylcytosine CI CC	O-amino acid
CH ₃ OH F O 6-Methylthymine CI C CH ₃ OH F O 6-Methyluracil Cl Cl CH ₃ OH F O 8-Methylguanine Cl Cl CH ₃ OH F O 6-Methylcytosine Cl Cl CH ₃ OH F O 8-Methyladenine Cl Cl CH ₃ OH F O 8-Methylhypoxanthine Cl Cl CH ₃ OH F O 5-Fluoro-6-Methyluracil Cl Cl CH ₃ OH F O 5-Fluoro-6-Methylcytosine Cl Cl	
CH ₃ OH F O 6-Methyluracil Cl Cl CH ₃ OH F O 8-Methylguanine Cl Cl CH ₃ OH F O 6-Methylcytosine Cl Cl CH ₃ OH F O 8-Methyladenine Cl Cl CH ₃ OH F O 8-Methylhypoxanthine Cl Cl CH ₃ OH F O 5-Fluoro-6-Methyluracil Cl Cl CH ₃ OH F O 5-Fluoro-6-Methylcytosine Cl Cl	
CH3OHFO8-MethylguanineClClCH3OHFO6-MethylcytosineClClCH3OHFO8-MethyladenineClClCH3OHFO8-MethylhypoxanthineClClCH3OHFO5-Fluoro-6-MethyluracilClClCH3OHFO5-Fluoro-6-MethylcytosineClCl	
CH3OHFO6-MethylcytosineClClCH3OHFO8-MethyladenineClClCH3OHFO8-MethylhypoxanthineClClCH3OHFO5-Fluoro-6-MethyluracilClClCH3OHFO5-Fluoro-6-MethylcytosineClCl	O-amino acid
CH3OHFO8-MethyladenineClClCH3OHFO8-MethylhypoxanthineClClCH3OHFO5-Fluoro-6-MethyluracilClClCH3OHFO5-Fluoro-6-MethylcytosineClCl	O-amino acid
CH3OHFO8-MethylhypoxanthineClClCH3OHFO5-Fluoro-6-MethyluracilClClCH3OHFO5-Fluoro-6-MethylcytosineClCl	O-amino acid
CH3OHFO5-Fluoro-6-MethyluracilClCCH3OHFO5-Fluoro-6-MethylcytosineClC	O-amino acid
CH ₃ OH F O 5-Fluoro-6-Methylcytosine Cl C	O-amino acid
 	O-amino acid
CH ₃ OH F O 2-Fluoro-8-methyladenine Cl O	O-amino acid
	O-amino acid
	O-amino acid
<u> </u>	O-amino acid
	O-amino acid
	O-amino acid
CH ₃ OH F O 6-N-acetyl-8-methyladenine Cl C	O-amino acid
CH ₃ OH F O 4-N-acetyl-5-fluoro-8-methylcytosine Cl C	O-amino acid
	O-amino acid
	O-amino acid
<u> </u>	O-amino acid
<u> </u>	O-amino acid
methylhypoxanthine	
\	O-acyl
	U-acyi i
	O-acyl O-acyl
	O-acyl
CH ₃ OH F O 8-Methylhypoxanthine Cl C	

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	ОН	F	0	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	OH	F	О	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	ОН	F	0	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	OH	F	О	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	ОН	F	О	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	OH	F	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	OH	F	0	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	ОН	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	OH	F	0	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	OH	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	OH	F	О	6-N-acetyl-2-amino-8-methyladenine	CI	O-acyl
CH ₃	ОН	F	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	OH	F	0	2-N-acetylamino-8-	CI	O-acyl
				methylhypoxanthine		
CH ₃	OH	F	О	6-Methylthymine	Н	O-amino acid
CH ₃	OH	F	О	6-Methyluracil	Н	O-amino acid
CH ₃	ОН	F	О	8-Methylguanine	Н	O-amino acid
CH ₃	ОН	F	0	6-Methylcytosine	Н	O-amino acid
CH ₃	ОН	F	O	8-Methyladenine	Н	O-amino acid
CH ₃	ОН	F	O	8-Methylhypoxanthine	Н	O-amino acid
CH ₃	OH	F	Ō	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	OH	F	Ō	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	OH	F	Ō	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	OH	F	O	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CH ₃	ОН	F	O	2-Amino-8-methyladenine	Н	O-amino acid
CH ₃	ОН	F	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	F	O	2-N-acetyl-8-methylguanine	Н	O-amino acid
CH ₃	OH	F	O	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CH ₃	ОН	F	O	6-N-acetyl-8-methyladenine	Н	O-amino acid
CH ₃	ОН	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CH ₃	OH	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CH ₃	ОН	F	O	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CH ₃	ОН	F	O	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CH ₃	OH	F	O	2-N-acetylamino-8-	Н	O-amino acid
		-		methylhypoxanthine		
CH ₃	ОН	F	o	6-Methylthymine	H	O-acyl
CH ₃	ОН	F	ō	6-Methyluracil	H	O-acyl
CH ₃	OH	F	o	8-Methylguanine	H	O-acyl
CH ₃	ОН	F	o	6-Methylcytosine	H	O-acyl
CH ₃	OH	F	o	8-Methyladenine	H	O-acyl
CH ₃	OH	F	0	8-Methylhypoxanthine	H	O-acyl
CH ₃	OH	F	ō	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	OH	F	o	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	ОН	F	0	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	OH	F	0	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CH ₃	OH	F	0	2-Amino-8-methyladenine	H	O-acyl
C113	1 011	<u> </u>		2-7 mino-o-mony adding	111	10.001

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	ОН	F	О	2-Amino-8-methylhypoxanthine	Н	O-acyl
CH ₃	ОН	F	О	2-N-acetyl-8-methylguanine	Н	O-acyl
CH ₃	OH	F	О	4-N-acetyl-8-methylcytosine	Н	O-acyl
CH ₃	OH	F	0	6-N-acetyl-8-methyladenine	Н	O-acyl
CH ₃	OH	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CH ₃	OH	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CH ₃	ОН	F	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	OH	F	0	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	OH	F	0	2-N-acetylamino-8-	Н	O-acyl
]		methylhypoxanthine		
CH ₃	OH	Br	0	6-Methylthymine	F	O-amino acid
CH ₃	ОН	Br	О	6-Methyluracil	F	O-amino acid
CH ₃	ОН	Br	0	8-Methylguanine	F	O-amino acid
CH ₃	ОН	Br	0	6-Methylcytosine	F	O-amino acid
CH ₃	OH	Br	О	8-Methyladenine	F	O-amino acid
CH ₃	OH	Br	O	8-Methylhypoxanthine	F	O-amino acid
CH ₃	ОН	Br	0	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	OH	Br	0	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	ОН	Br	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	ОН	Br	О	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	ОН	Br	O	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	ОН	Br	О	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	ОН	Br	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	ОН	Br	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	ОН	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	ОН	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	OH	Br	0	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	OH	Br	О	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	OH	Br	0	2-N-acetylamino-8-	F	O-amino acid
		<u> </u>	-	methylhypoxanthine		<u> </u>
CH ₃	OH	Br	О	6-Methylthymine	F	O-acyl
CH ₃	ОН	Br	О	6-Methyluracil	F	O-acyl
CH ₃	ОН	Br	О	8-Methylguanine	F	O-acyl
CH ₃	OH	Br	0	6-Methylcytosine	F	O-acyl
CH ₃	ОН	Br	О	8-Methyladenine	F	O-acyl
CH ₃	OH	Br	О	8-Methylhypoxanthine	F	O-acyl
CH ₃	ОН	Br	О	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	ОН	Br	О	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	ОН	Br	О	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	ОН	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	ОН	Br	0	2-Amino-8-methyladenine	F	O-acyl
CH ₃	ОН	Br	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	ОН	Br	О	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	ОН	Br	О	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	ОН	Br	О	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	OH	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	OH	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	ОН	Br	О	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	OH	Br	0	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	OH	Br	0	2-N-acetylamino-8-	F	O-acyl
				methylhypoxanthine		
CH ₃	ОН	Br	О	6-Methylthymine	Br	O-amino acid
CH ₃	ОН	Br	O	6-Methyluracil	Br	O-amino acid
CH ₃	ОН	Br	Q	8-Methylguanine	Br	O-amino acid
CH ₃	OH	Br	0	6-Methylcytosine	Br	O-amino acid
CH ₃	ОН	Br	O	8-Methyladenine	Br	O-amino acid
CH ₃	ОН	Br	O	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	ОН	Br	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	ОН	Br	О	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	ОН	Br	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Br	О	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	ОН	Br	О	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Br	0	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	ОН	Br	О	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	ОН	Br	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	ОН	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Br	o	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	ОН	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Br	o	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Br	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Br	O	2-N-acetylamino-8-	Br	O-amino acid
, ,	1 .	1		methylhypoxanthine	1	
CH ₃	ОН	Br	0	6-Methylthymine	Br	O-acyl
CH ₃	ОН	Br	O	6-Methyluracil	Br	O-acyl
CH ₃	ОН	Br	О	8-Methylguanine	Br	O-acyl
CH ₃	OH	Br	0	6-Methylcytosine	Br	O-acyl
CH ₃	ОН	Br	О	8-Methyladenine	Br	O-acyl
CH ₃	ОН	Br	0	8-Methylhypoxanthine	Br	O-acyl
CH ₃	OH	Br	О	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	ОН	Br	О	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	ОН	Br	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	OH	Br	О	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	ОН	Br	0	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	ОН	Br	О	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	ОН	Br	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	OH	Br	О	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	OH	Br	О	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	ОН	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	ОН	Br	o	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	ОН	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	ОН	Br	Ō	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	ОН	Br	Ō	2-N-acetylamino-8-	Br	O-acyl
			1	methylhypoxanthine		
<u> </u>	1	Щ		methylhypoxanthine	1	<u> </u>

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	ОН	Br	О	6-Methylthymine	Cl	O-amino acid
CH ₃	ОН	Br	0	6-Methyluracil	Cl	O-amino acid
CH ₃	OH	Br	0	8-Methylguanine	Cl	O-amino acid
CH ₃	OH	Br	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	ОН	Br	Ó	8-Methyladenine	Cl	O-amino acid
CH ₃	ОН	Br	0	8-Methylhypoxanthine	Cľ	O-amino acid
CH ₃	ОН	Br	О	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	OH	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	OH	Br	О	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Br	О	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	ОН	Br	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Br	О	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	ОН	Br	О	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	OH	Br	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	OH	Br	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	ОН	Br	Ō	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Br	0	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Br	o	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Br	Ŏ	2-N-acetylamino-8-	Cl	O-amino acid
0113				methylhypoxanthine	0.	
CH ₃	ОН	Br	O	6-Methylthymine	Cl	O-acyl
CH ₃	OH	Br	O	6-Methyluracil	Cl	O-acyl
CH ₃	ОН	Br	O	8-Methylguanine	Cl	O-acyl
CH ₃	ОН	Br	O	6-Methylcytosine	Cl	O-acyl
CH ₃	ОН	Br	Ō	8-Methyladenine	Cl	O-acyl
CH ₃	ОН	Br	Ö	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	ОН	Br	Ō	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	ОН	Br	O	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	ОН	Br	Ó	2-Fluoro-8-methyladenine	CI	O-acyl
CH ₃	ОН	Br	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	ОН	Br	o	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	ОН	Br	o	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	ОН	Br	O	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	ОН	Br	Ō	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	ОН	Br	ō	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	OH	Br	ō	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	ОН	Br	o	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	ОН	Br	o	6-N-acetyl-2-amino-8-methyladenine	CI	O-acyl
CH ₃	ОН	Br	0	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	OH	Br	0	2-N-acetylamino-8-	Cl	O-acyl
"11,		~		methylhypoxanthine		
CH ₃	OH ,	Br	0	6-Methylthymine	Н	O-amino acid
CH ₃	OH	Br	ō	6-Methyluracil	H	O-amino acid
CH ₃	ОН	Br	0	8-Methylguanine	H	O-amino acid
CH ₃	OH	Br	o	6-Methylcytosine	Н	O-amino acid
CH ₃	OH	Br	0	8-Methyladenine	H	O-amino acid
C113	VII	זת	\perp	o Menyladelille	111	O-amino aciu

R ⁶	R ⁷	R ⁸	X	Başe	R ¹⁰	R ⁹
CH ₃	ОН	Br	О	8-Methylhypoxanthine	Н	O-amino acid
CH ₃	ОН	Br	О	5-Fluoro-6-Methyluracil	Н	O-amino acid
CH ₃	ОН	Br	О	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	ОН	Br	О	2-Fluoro-8-methyladenine	Н	O-amino acid
CH ₃	ОН	Br	О	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CH ₃	ОН	Br	Ó	2-Amino-8-methyladenine	Н	O-amino acid
CH ₃	OH	Br	О	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CH ₃	OH	Br	О	2-N-acetyl-8-methylguanine	Н	O-amino acid
CH ₃	OH	Br	0	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CH ₃	OH	Br	О	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	ОН	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CH ₃	OH	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CH ₃	ОН	Br	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CH ₃	ОН	Br	0	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	ОН	Br	O	2-N-acetylamino-8-	Н	O-amino acid
				methylhypoxanthine		
CH ₃	ОН	Br	О	6-Methylthymine	Н	O-acyl
CH ₃	ОН	Br	0	6-Methyluracil	Н	O-acyl
CH ₃	ОН	Br	О	8-Methylguanine	Н	O-acyl
CH ₃	OH	Br	0	6-Methylcytosine	Н	O-acyl
CH ₃	OH	Br	О	8-Methyladenine	Н	O-acyl
CH ₃	ОН	Br	O	8-Methylhypoxanthine	Н	O-acyl
CH ₃	OH	Br	О	5-Fluoro-6-Methyluracil	Н	O-acyl
CH ₃	ОН	Br	0	5-Fluoro-6-Methylcytosine	Н	O-acyl
CH ₃	ОН	Br	O	2-Fluoro-8-methyladenine	Н	O-acyl
CH ₃	OH	Br	О	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CH ₃	ОН	Br	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	ОН	Br	O	2-Amino-8-methylhypoxanthine	Н	O-acyl
CH ₃	OH	Br	О	2-N-acetyl-8-methylguanine	Н	O-acyl
CH ₃	OH	Br	О	4-N-acetyl-8-methylcytosine	Н	O-acyl
CH ₃	ОН	Br	О	6-N-acetyl-8-methyladenine	Н	O-acyl
CH ₃	ОН	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CH ₃	ОН	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CH ₃	OH	Br	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	OH	Br	О	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	OH	Br	О	2-N-acetylamino-8-	Н	O-acyl
		,		methylhypoxanthine		
CH ₃	OH	Cl	О	6-Methylthymine	F	O-amino acid
CH ₃	OH	Cl	О	6-Methyluracil	F	O-amino acid
CH ₃	ОН	Cl	О	8-Methylguanine	F	O-amino acid
CH ₃	ОН	Cl	О	6-Methylcytosine	F	O-amino acid
CH ₃	ОН	Cl .	О	8-Methyladenine	F	O-amino acid
CH ₃	ОН	Cl	О	8-Methylhypoxanthine	F	O-amino acid
CH ₃	ОН	Cl	О	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	ОН	Cl	О	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	OH	Cl	О	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	ОН	Cl	О	2-Fluoro-8-methylhypoxanthine	F	O-amino acid

CH₃ OH Cl O 2-Amino-8-methylhypoxanthine F O-amino acid CH₃ OH Cl O 2-N-acetyl-8-methylguanine F O-amino acid CH₃ OH Cl O 4-N-acetyl-8-methyladenine F O-amino acid CH₃ OH Cl O 4-N-acetyl-2-fluoro-8-methyladenine F O-amino acid CH₃ OH Cl O 6-N-acetyl-2-fluoro-8-methyladenine F O-amino acid CH₃ OH Cl O 6-N-acetyl-2-fluoro-8-methyladenine F O-amino acid CH₃ OH Cl O 6-N-acetyl-2-mino-8-methyladenine F O-amino acid CH₃ OH Cl O 6-Methylumino-8-methyladenine F O-acyl CH₃ OH Cl O 6-Methylumino-8-methyladenine F O-acyl CH₃ OH Cl O 6-Methylumino-8-methylumino-8-methyladenine F O-acyl CH₃ OH Cl	R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃ OH Cl O 2-N-acetyl-8-methylguanine F O-amino acid CH ₃ OH Cl O 4-N-acetyl-8-methylgytosine F O-amino acid CH ₃ OH Cl O 4-N-acetyl-5-fluoro-8-methyladenine F O-amino acid CH ₃ OH Cl O 6-N-acetyl-2-fluoro-8-methyladenine F O-amino acid CH ₃ OH Cl O 6-N-acetyl-2-fluoro-8-methyladenine F O-amino acid CH ₃ OH Cl O 6-N-acetyl-2-fluoro-8-methyladenine F O-amino acid CH ₃ OH Cl O 2-N-acetylamino-8-methyladenine F O-amino acid CH ₃ OH Cl O 6-Methyltymacil F O-acyl CH ₃ OH Cl O 6-Methyltymacil F O-acyl CH ₃ OH Cl O 8-Methylgaanine F O-acyl CH ₃ OH Cl O 8-Methylga	CH ₃	ОН		О	2-Amino-8-methyladenine	F	O-amino acid
CH₃ OH CI O 4-N-acetyl-8-methylcytosine F O-amino acid CH₃ OH CI O 6-N-acetyl-1-8-methylcytosine F O-amino acid CH₃ OH CI O 6-N-acetyl-2-fluoro-8-methyladenine F O-amino acid CH₃ OH CI O 6-N-acetyl-2-mino-8-methyladenine F O-amino acid CH₃ OH CI O 2-N-acetylamino-8-methyladenine F O-amino acid CH₃ OH CI O 2-N-acetylamino-8-methyladenine F O-amino acid CH₃ OH CI O 6-Methyltymine F O-acyl CH₃ OH CI O 6-Methyltymine F O-acyl CH₃ OH CI O 6-Methyltymine F O-acyl CH₃ OH CI O 8-Methyldenine F O-acyl CH₃ OH CI O 8-Methylkypoxanthine F O-acyl<	CH ₃	ОН	Cl	О	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH3 OH CI O 6-N-acetyl-8-methyladenine F O-amino acid CH3 OH CI O 4-N-acetyl-2-fluoro-8-methyladenine F O-amino acid CH3 OH CI O 6-N-acetyl-2-fluoro-8-methyladenine F O-amino acid CH3 OH CI O 6-N-acetyl-2-amino-8-methyladenine F O-amino acid CH3 OH CI O 2-N-acetylamino-8-methyladenine F O-amino acid CH3 OH CI O 6-Methylthymine F O-acyl CH3 OH CI O 6-Methyltymacil F O-acyl CH3 OH CI O 6-Methyltymacil F O-acyl CH3 OH CI O 8-Methyladenine F O-acyl CH3 OH CI O 8-Methylypoxanthine F O-acyl CH3 OH CI O 5-Fluoro-6-Methyluryacil F O-acyl	CH ₃	OH	Cl	0	2-N-acetyl-8-methylguanine	F	O-amino acid
CH₃ OH CI O 4-N-acetyl-5-fluoro-8-methyladenine F O-amino acid CH₃ OH CI O 6-N-acetyl-2-amino-8-methyladenine F O-amino acid CH₃ OH CI O 6-N-acetyl-2-amino-8-methyladenine F O-amino acid CH₃ OH CI O 2-N-acetylamino-8-methyladenine F O-amino acid CH₃ OH CI O 2-N-acetylamino-8-methyladenine F O-acyl CH₃ OH CI O 6-Methyltypoxanthine F O-acyl CH₃ OH CI O 6-Methyltytosine F O-acyl CH₃ OH CI O 8-Methyladenine F O-acyl CH₃ OH CI O 8-Methylpytosanthine F O-acyl CH₃ OH CI O 8-Methylpytosanthine F O-acyl CH₃ OH CI O 5-Fluoro-6-Methyluracil F O-	CH ₃	ОН	Cl	0	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃ OH CI O 6-N-acetyl-2-fluoro-8-methyladenine F O-amino acid CH ₃ OH CI O 6-N-acetyl-2-amino-8-methyladenine F O-amino acid CH ₃ OH CI O 2-N-acetylamino-8-methyladenine F O-amino acid CH ₃ OH CI O 6-Methylthymine F O-amino acid CH ₃ OH CI O 6-Methylthymine F O-acyl CH ₃ OH CI O 6-Methyltyrosine F O-acyl CH ₃ OH CI O 6-Methyltylosine F O-acyl CH ₃ OH CI O 8-Methyldypoxanthine F O-acyl CH ₃ OH CI O 8-Methylhypoxanthine F O-acyl CH ₃ OH CI O 5-Fluoro-6-Methyltyrosine F O-acyl CH ₃ OH CI O 5-Fluoro-6-Methyltyrosine F O-acyl </td <td>CH₃</td> <td>OH</td> <td>Cl</td> <td>0</td> <td>6-N-acetyl-8-methyladenine</td> <td>F</td> <td>O-amino acid</td>	CH ₃	OH	Cl	0	6-N-acetyl-8-methyladenine	F	O-amino acid
CH3 OH CI O 6-N-acetyl-2-amino-8-methyladenine F O-amino acid CH3 OH CI O 2-N-acetylamino-8-methyladenine F O-amino acid CH3 OH CI O 2-N-acetylamino-8-methyladenine F O-amino acid CH3 OH CI O 6-Methylthymine F O-acyl CH3 OH CI O 6-Methyltymine F O-acyl CH3 OH CI O 6-Methyltymine F O-acyl CH3 OH CI O 6-Methyltytosine F O-acyl CH3 OH CI O 8-Methyltypoxanthine F O-acyl CH3 OH CI O 8-Methyltypoxanthine F O-acyl CH3 OH CI O 8-Methyltypoxanthine F O-acyl CH3 OH CI O 2-Fluoro-8-methyltypoxanthine F O-acyl C	CH ₃	ОН	Cl	0	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH₃ OH Cl O 2-N-acetylamino-8-methyladenine F O-amino acid methylhypoxanthine CH₃ OH Cl O 2-N-acetylamino-8-methyladenine F O-amino acid methylhypoxanthine CH₃ OH Cl O 6-Methylthymine F O-acyl CH₃ OH Cl O 6-Methyluracil F O-acyl CH₃ OH Cl O 6-Methylypoxanthine F O-acyl CH₃ OH Cl O 8-Methyladenine F O-acyl CH₃ OH Cl O 8-Methylhypoxanthine F O-acyl CH₃ OH Cl O 5-Fluoro-6-Methylcytosine F O-acyl CH₃ OH Cl O 5-Fluoro-8-methyladenine F O-acyl CH₃ OH Cl O 2-Fluoro-8-methyladenine F O-acyl CH₃ OH Cl O 2-Amino-8-methyladenine F O-acyl	CH ₃	ОН	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
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CH3OHClO6-MethyluracilBrO-amino acidCH3OHClO8-MethylguanineBrO-amino acidCH3OHClO6-MethylcytosineBrO-amino acidCH3OHClO8-MethyladenineBrO-amino acidCH3OHClO8-MethylhypoxanthineBrO-amino acidCH3OHClO5-Fluoro-6-MethylcytosineBrO-amino acidCH3OHClO2-Fluoro-8-methyladenineBrO-amino acidCH3OHClO2-Fluoro-8-methylhypoxanthineBrO-amino acidCH3OHClO2-Amino-8-methylhypoxanthineBrO-amino acidCH3OHClO2-Amino-8-methylhypoxanthineBrO-amino acidCH3OHClO2-N-acetyl-8-methylguanineBrO-amino acidCH3OHClO4-N-acetyl-8-methylcytosineBrO-amino acid	CH ₃	OH	Cl	0		Br	O-amino acid
CH3OHClO6-MethylcytosineBrO-amino acidCH3OHClO8-MethyladenineBrO-amino acidCH3OHClO8-MethylhypoxanthineBrO-amino acidCH3OHClO5-Fluoro-6-MethyluracilBrO-amino acidCH3OHClO2-Fluoro-8-methyladenineBrO-amino acidCH3OHClO2-Fluoro-8-methylhypoxanthineBrO-amino acidCH3OHClO2-Amino-8-methylhypoxanthineBrO-amino acidCH3OHClO2-Amino-8-methylhypoxanthineBrO-amino acidCH3OHClO2-N-acetyl-8-methylguanineBrO-amino acidCH3OHClO4-N-acetyl-8-methylcytosineBrO-amino acid		OH	Cl	0		Br	O-amino acid
CH3OHCIO8-MethyladenineBrO-amino acidCH3OHCIO8-MethylhypoxanthineBrO-amino acidCH3OHCIO5-Fluoro-6-MethyluracilBrO-amino acidCH3OHCIO5-Fluoro-6-MethylcytosineBrO-amino acidCH3OHCIO2-Fluoro-8-methyladenineBrO-amino acidCH3OHCIO2-Fluoro-8-methylhypoxanthineBrO-amino acidCH3OHCIO2-Amino-8-methylhypoxanthineBrO-amino acidCH3OHCIO2-N-acetyl-8-methylguanineBrO-amino acidCH3OHCIO4-N-acetyl-8-methylcytosineBrO-amino acid	CH ₃	OH	Cl	0	8-Methylguanine	Br	O-amino acid
CH3OHCIO8-MethyladenineBrO-amino acidCH3OHCIO8-MethylhypoxanthineBrO-amino acidCH3OHCIO5-Fluoro-6-MethyluracilBrO-amino acidCH3OHCIO5-Fluoro-6-MethylcytosineBrO-amino acidCH3OHCIO2-Fluoro-8-methyladenineBrO-amino acidCH3OHCIO2-Amino-8-methyladenineBrO-amino acidCH3OHCIO2-Amino-8-methylhypoxanthineBrO-amino acidCH3OHCIO2-N-acetyl-8-methylguanineBrO-amino acidCH3OHCIO4-N-acetyl-8-methylcytosineBrO-amino acid		OH	Cl	О	6-Methylcytosine	Br	O-amino acid
CH3OHCIO8-MethylhypoxanthineBrO-amino acidCH3OHCIO5-Fluoro-6-MethyluracilBrO-amino acidCH3OHCIO5-Fluoro-6-MethylcytosineBrO-amino acidCH3OHCIO2-Fluoro-8-methyladenineBrO-amino acidCH3OHCIO2-Fluoro-8-methylhypoxanthineBrO-amino acidCH3OHCIO2-Amino-8-methyladenineBrO-amino acidCH3OHCIO2-Amino-8-methylhypoxanthineBrO-amino acidCH3OHCIO2-N-acetyl-8-methylguanineBrO-amino acidCH3OHCIO4-N-acetyl-8-methylcytosineBrO-amino acid	CH ₃	OH	Cl	0		Br	O-amino acid
CH3OHClO5-Fluoro-6-MethyluracilBrO-amino acidCH3OHClO5-Fluoro-6-MethylcytosineBrO-amino acidCH3OHClO2-Fluoro-8-methyladenineBrO-amino acidCH3OHClO2-Fluoro-8-methylhypoxanthineBrO-amino acidCH3OHClO2-Amino-8-methyladenineBrO-amino acidCH3OHClO2-Amino-8-methylhypoxanthineBrO-amino acidCH3OHClO2-N-acetyl-8-methylguanineBrO-amino acidCH3OHClO4-N-acetyl-8-methylcytosineBrO-amino acid			Cl		<u> </u>		O-amino acid
CH3OHClO5-Fluoro-6-MethylcytosineBrO-amino acidCH3OHClO2-Fluoro-8-methyladenineBrO-amino acidCH3OHClO2-Fluoro-8-methylhypoxanthineBrO-amino acidCH3OHClO2-Amino-8-methyladenineBrO-amino acidCH3OHClO2-Amino-8-methylhypoxanthineBrO-amino acidCH3OHClO2-N-acetyl-8-methylguanineBrO-amino acidCH3OHClO4-N-acetyl-8-methylcytosineBrO-amino acid			CI	О	 	Br	O-amino acid
CH3OHClO2-Fluoro-8-methyladenineBrO-amino acidCH3OHClO2-Fluoro-8-methylhypoxanthineBrO-amino acidCH3OHClO2-Amino-8-methyladenineBrO-amino acidCH3OHClO2-Amino-8-methylhypoxanthineBrO-amino acidCH3OHClO2-N-acetyl-8-methylguanineBrO-amino acidCH3OHClO4-N-acetyl-8-methylcytosineBrO-amino acid					<u> </u>		O-amino acid
CH3OHClO2-Fluoro-8-methylhypoxanthineBrO-amino acidCH3OHClO2-Amino-8-methyladenineBrO-amino acidCH3OHClO2-Amino-8-methylhypoxanthineBrO-amino acidCH3OHClO2-N-acetyl-8-methylguanineBrO-amino acidCH3OHClO4-N-acetyl-8-methylcytosineBrO-amino acid				О			O-amino acid
CH3OHClO2-Amino-8-methyladenineBrO-amino acidCH3OHClO2-Amino-8-methylhypoxanthineBrO-amino acidCH3OHClO2-N-acetyl-8-methylguanineBrO-amino acidCH3OHClO4-N-acetyl-8-methylcytosineBrO-amino acid				О		Br	O-amino acid
CH ₃ OH Cl O 2-Amino-8-methylhypoxanthine Br O-amino acid CH ₃ OH Cl O 2-N-acetyl-8-methylguanine Br O-amino acid CH ₃ OH Cl O 4-N-acetyl-8-methylcytosine Br O-amino acid						+	O-amino acid
CH ₃ OH Cl O 2-N-acetyl-8-methylguanine Br O-amino acid CH ₃ OH Cl O 4-N-acetyl-8-methylcytosine Br O-amino acid				+			O-amino acid
CH ₃ OH Cl O 4-N-acetyl-8-methylcytosine Br O-amino acid							O-amino acid
							O-amino acid
CH ₃ OH Cl O 6-N-acetyl-8-methyladenine Br O-amino acid	CH ₃	ОН	Cl	O	6-N-acetyl-8-methyladenine	Br	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	\mathbb{R}^{10}	R ⁹
CH ₃	ОН	Cl	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	OH	Cl	О	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Cl	0	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine		
CH ₃	ОН	Cl	0	6-Methylthymine	Br	O-acyl
CH ₃	ОН	Cl	0	6-Methyluracil	Br	O-acyl
CH ₃	ОН	Cl	O	8-Methylguanine	Br	O-acyl
CH ₃	ОН	Cl	О	6-Methylcytosine	Br	O-acyl
CH ₃	OH	Cl	0	8-Methyladenine	Br	O-acyl
CH ₃	OH	Cl	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	OH	Cl	О	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	OH	Cl	О	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	OH	Cl	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	ОН	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	ОН	Cl	0	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	OH	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	OH	Cl	0	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	OH	Cl	О	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	OH	Cl	О	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	ОН	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	ОН	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	ОН	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	ОН	Cl	О	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine		
CH ₃	OH	Cl	О	6-Methylthymine	Cl	O-amino acid
CH ₃	ОН	Cl	О	6-Methyluracil	Cl	O-amino acid
CH ₃	ОН	Cl	O	8-Methylguanine	Cl	O-amino acid
CH ₃	ОН	Cl	0	6-Methylcytosine	Cl	O-amino acid
CH ₃	OH	Cl	0	8-Methyladenine	Cl	O-amino acid
CH ₃	ОН	Cl	О	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	ОН	Cl	О	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	ОН	Cl	0	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	ОН	Cl	0	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	CI	0	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	Cl	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	ОН	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	ОН	CI	О	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	ОН	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	ОН	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃		Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Cl	О	2-N-acetylamino-8-	Cl	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
				methylhypoxanthine		
CH ₃	ОН	Cl	О	6-Methylthymine	Cl	O-acyl
CH ₃	OH	Cl	О	6-Methyluracil	Cl	O-acyl
CH ₃	ОН	Cl	O	8-Methylguanine	Cl	O-acyl
CH ₃	OH	Cl	O	6-Methylcytosine	Cl	O-acyl
CH ₃	ОН	Cl	0	8-Methyladenine	Cl	O-acyl
CH ₃	ОН	Cl	0	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	OH	Cl	О	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	OH	Cl	О	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	ОН	Cl	0	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	ОН	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	ОН	Ci	0	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	ОН	Cl	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	ОН	Cl	0	2-N-acetyl-8-methylguanine	CI	O-acyl
CH ₃	ОН	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	ОН	Cl	ō	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	ОН	Cl	o	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	OH	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	ОН	CI	ō	6-N-acetyl-2-amino-8-methyladenine	CI	O-acyl
CH ₃	OH	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	OH	Cl	o	2-N-acetylamino-8-	Cl	O-acyl
		0,	`	methylhypoxanthine		
CH ₃	ОН	CI	O	6-Methylthymine	Н	O-amino acid
CH ₃	OH	Cl	O	6-Methyluracil	H	O-amino acid
CH ₃	OH	Cl	o	8-Methylguanine	Н	O-amino acid
CH ₃	OH	Cl	Ō	6-Methylcytosine	H	O-amino acid
CH ₃	OH	Cl	O	8-Methyladenine	H	O-amino acid
CH ₃	OH	Ci	O	8-Methylhypoxanthine	H	O-amino acid
CH ₃	ОН	CI	ō	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	OH	Cl	Ō	5-Fluoro-6-Methylcytosine	H	O-amino acid
CH ₃	OH	Cl	O	2-Fluoro-8-methyladenine	H	O-amino acid
CH ₃	OH	Cl	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	OH	CI	o	2-Amino-8-methyladenine	$\frac{1}{H}$	O-amino acid
CH ₃	ОН	Cl	O	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CH ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	OH	CI	o	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	OH	Cl	o	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	OH	Cl	o	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	OH	Cl	o	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	OH	Cl	0	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CH ₃	OH	Cl	0	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	OH	Cl	0	2-N-acetylamino-8-methyladennie	H	O-amino acid
C113				methylhypoxanthine	11	O-animo acid
CH ₃	ОН	CI	o	6-Methylthymine	H	O-acyl
CH ₃	OH	CI	0	6-Methyluracil	Н	O-acyl
CH ₃	OH	Cl	0	8-Methylguanine	Н	O-acyl
	OH	Cl	0	6-Methylcytosine	H	
CH ₃	UH		TO_	0-ivicinyicyiosine	_ n	O-acyl

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	ОН	Cl	О	8-Methyladenine	Н	O-acyl
CH ₃	OH	Cl	0	8-Methylhypoxanthine	Н	O-acyl
CH ₃	ОН	Cl	О	5-Fluoro-6-Methyluracil	Н	O-acyl
CH ₃	OH	Cl	0	5-Fluoro-6-Methylcytosine	Н	O-acyl
CH ₃	OH	Cl	0	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	OH	Cl	0	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CH ₃	ОН	CI	0	2-Amino-8-methyladenine	Н	O-acyl
CH ₃	OH	Cl	О	2-Amino-8-methylhypoxanthine	Н	O-acyl
CH ₃	OH	Cl	O	2-N-acetyl-8-methylguanine	Н	O-acyl
CH ₃	ОН	Cl	О	4-N-acetyl-8-methylcytosine	Н	O-acyl
CH ₃	OH	Cl	0	6-N-acetyl-8-methyladenine	Н	O-acyl
CH ₃	OH	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CH ₃	ОН	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CH ₃	ОН	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	ОН	Cl	O	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	ОН	Cl	O	2-N-acetylamino-8-	Н	O-acyl
			_	methylhypoxanthine		
CH ₃	ОН	Н	o	6-Methylthymine	F	O-amino acid
CH ₃	OH	Н	0	6-Methyluracil	F	O-amino acid
CH ₃	OH	Н	O	8-Methylguanine	F	O-amino acid
CH ₃	ОН	Н	o	6-Methylcytosine	F	O-amino acid
CH ₃	ОН	H	o	8-Methyladenine	F	O-amino acid
CH ₃	OH	H	o	8-Methylhypoxanthine	. F	O-amino acid
CH ₃	ОН	Н	ŏ	5-Fluoro-6-Methyluracii	F	O-amino acid
CH ₃	OH	H	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	OH	H	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	OH	H	o	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	H	o	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	OH	H	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	OH	H	ō	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	OH	Н	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	OH	H	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	OH	H	Ō	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	ОН	H	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	ОН	H	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	ОН	H	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	OH	H	Ō	2-N-acetylamino-8-	F	O-amino acid
01.3		1		methylhypoxanthine	-	
CH ₃	ОН	H	O	6-Methylthymine	F	O-acyl
CH ₃	OH	H	o	6-Methyluracil	F	O-acyl
CH ₃	OH	Н	o	8-Methylguanine	F	O-acyl
CH ₃	OH	H	o	6-Methylcytosine	F	O-acyl
CH ₃	OH	H	o	8-Methyladenine	F	O-acyl
CH ₃	OH	H	o	8-Methylhypoxanthine	F	O-acyl
CH ₃	OH	H	0	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	OH	Н	0	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	OH	H	0	2-Fluoro-8-methyladenine	$\frac{1}{F}$	O-acyl
C113	1011	111	\perp	2-1 Idolo 6-monty iddennie		1 O-acy1

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	ОН	Н	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	Н	О	2-Amino-8-methyladenine	F	O-acyl
CH ₃	OH	Н	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	OH	H	0	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	ОН	Н	0	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	OH	Н	0	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	OH	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	OH	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	ОН	Н	0	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	ОН	Н	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	ОН	Н	O	2-N-acetylamino-8-	F	O-acyl
				methylhypoxanthine		. 1
CH ₃	ОН	Н	О	6-Methylthymine	Br	O-amino acid
CH ₃	ОН	Н	0	6-Methyluracil	Br	O-amino acid
CH ₃	OH	Н	О	8-Methylguanine	Br	O-amino acid
CH ₃	ОН	Н	O	6-Methylcytosine	Br	O-amino acid
CH ₃	ОН	Н	0	8-Methyladenine	Br	O-amino acid
CH ₃	OН	Н	0	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	OH	Н	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	OH	Н	О	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	ОН	Н	О	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Н	О	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	ОН	Н	О	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Н	О	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	ОН	Н	О	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	OH	Н	О	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	ОН	Н	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	OH	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Н	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	OH .	Н	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	ОН	Н	О	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine		
CH ₃	ОН	Н	O	6-Methylthymine	Br	O-acyl
CH ₃	ОН	Η·	О	6-Methyluracil	Br	O-acyl
CH ₃	ОН	Н	О	8-Methylguanine	Br	O-acyl
CH ₃	ОН	Н	О	6-Methylcytosine	Br	O-acyl
CH ₃	ОН	Н	О	8-Methyladenine	Br	O-acyl
CH ₃	ОН	Н	О	8-Methylhypoxanthine	Br	O-acyl
CH ₃	ОН	H	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	ОН	Н	О	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	OH	Н	О	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	ОН	Н	О	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	ОН	Н	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	ОН	Н	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	ОН	H	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	OH	Н	O	4-N-acetyl-8-methylcytosine	Br	O-acyl

\mathbb{R}^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	ОН	Н	О	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	ОН	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	OH	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	OH	Н	0	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	ОН	Н	0	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	ОН	Н	0	2-N-acetylamino-8-	Br	O-acyl
1		ł ·		methylhypoxanthine		.
CH ₃	OH	Н	О	6-Methylthymine	Cl	O-amino acid
CH ₃	ОН	Н	О	6-Methyluracil	Cl	O-amino acid
CH ₃	OH	Н	О	8-Methylguanine	Cl	O-amino acid
CH ₃	ОН	Н	0	6-Methylcytosine	Cl	O-amino acid
CH ₃	ОН	Н	О	8-Methyladenine	Cl	O-amino acid
CH ₃	ОН	Н	О	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	Н	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	OH	Н	0	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	ОН	Н	О	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Н	О	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	OH	Н	O	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Н	О	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	ОН	H	О	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	ОН	Н	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	ОН	Н	О	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	ОН	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	CI	O-amino acid
CH ₃	ОН	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Н	О	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	ОН	Н	О	2-N-acetylamino-8-	Cl	O-amino acid
		ļ		methylhypoxanthine		
CH ₃	ОН	Н	О	6-Methylthymine	Cl	O-acyl
CH ₃	ОН	H	О	6-Methyluracil	Cl	O-acyl
CH ₃	ОН	H	O	8-Methylguanine	Cl	O-acyl
CH ₃	OH	Н	О	6-Methylcytosine	Cl	O-acyl
CH ₃	OH	H	О	8-Methyladenine	Cl	O-acyl
CH ₃	ОН	Н	О	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	ОН	Н	О	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	OH	Н	О	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	ОН	Н	О	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	ОН	Н	О	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	ОН	H	O	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	ОН	Н	О	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	ОН	Н	О	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	OH	Н	О	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	OH	Н	О	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	ОН	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	OH	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	ОН	Н	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	ОН	Н	О	2-N-acetylamino-8-methyladenine	Cl	O-acyl

CH₃ OH H O 2-N-acetylamino-8-methylhypoxanthine CI O-acyl methylhypoxanthine CH₃ OH H O 6-Methylthymine H O-amino acid CH₃ OH H O 6-Methylthymine H O-amino acid CH₃ OH H O 6-Methylthypoxanthine H O-amino acid CH₃ OH H O 8-Methyladenine H O-amino acid CH₃ OH H O 8-Methyladenine H O-amino acid CH₃ OH H O 8-Methyladenine H O-amino acid CH₃ OH H O 5-Fluoro-6-Methyladenine H O-amino acid CH₃ OH H O 2-Fluoro-8-methyladenine H O-amino acid CH₃ OH H O 2-Fluoro-8-methyladenine H O-amino acid CH₃ OH H O 2-Nacetyl-8-methyladenine H O-amino acid<	R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
GH ₃ OH H O 6-Methylthymine H O-amino acid CH ₃ OH H O 6-Methylthymine H O-amino acid CH ₃ OH H O 8-Methylguanine H O-amino acid CH ₃ OH H O 8-Methyladenine H O-amino acid CH ₃ OH H O 8-Methyladenine H O-amino acid CH ₃ OH H O 8-Methyladenine H O-amino acid CH ₃ OH H O 5-Fluoro-6-Methyleytosine H O-amino acid CH ₃ OH H O 2-Fluoro-8-methyleytosine H O-amino acid CH ₃ OH H O 2-Fluoro-8-methyladenine H O-amino acid CH ₃ OH H O 2-Nacetyl-8-methyladenine H O-amino acid CH ₃ OH H O 4-Nacetyl-8-methyladenine H O-amino acid	CH ₃	ОН	Н	О	2-N-acetylamino-8-	Cl	O-acyl
GH3 OH H O 6-Methyluracil H O-amino acid CH3 OH H O 8-Methylguanine H O-amino acid CH3 OH H O 8-Methylcytosine H O-amino acid CH3 OH H O 8-Methylpoxanthine H O-amino acid CH3 OH H O 5-Fluoro-6-Methyluracil H O-amino acid CH3 OH H O 5-Fluoro-6-Methyluracil H O-amino acid CH3 OH H O 2-Fluoro-8-methyladenine H O-amino acid CH3 OH H O 2-Fluoro-8-methyladenine H O-amino acid CH3 OH H O 2-Amino-8-methyladenine H O-amino acid CH3 OH H O 2-N-acetyl-8-methyladenine H O-amino acid CH3 OH H O 4-N-acetyl-5-fluoro-8-methyladenine H O-amino acid <td></td> <td></td> <td></td> <td></td> <td>methylhypoxanthine</td> <td></td> <td></td>					methylhypoxanthine		
CH₃ OH H O 8-Methylguanine H O-amino acid CH₃ OH H O 6-Methylcytosine H O-amino acid CH₃ OH H O 8-Methyladenine H O-amino acid CH₃ OH H O 8-Methylhypoxanthine H O-amino acid CH₃ OH H O 5-Fluoro-6-Methyluracil H O-amino acid CH₃ OH H O 5-Fluoro-8-methylylossine H O-amino acid CH₃ OH H O 2-Fluoro-8-methyladenine H O-amino acid CH₃ OH H O 2-Fluoro-8-methyladenine H O-amino acid CH₃ OH H O 2-N-acetyl-8-methyladenine H O-amino acid CH₃ OH H O 4-N-acetyl-18-methyladenine H O-amino acid CH₃ OH H O 4-N-acetyl-18-methylatonine H O-amino acid </td <td>CH₃</td> <td>OH</td> <td>Н</td> <td>О</td> <td>6-Methylthymine</td> <td>Н</td> <td>O-amino acid</td>	CH ₃	OH	Н	О	6-Methylthymine	Н	O-amino acid
CH3	CH ₃	ОН	Н	O	6-Methyluracil	H	O-amino acid
CH₃ OH H O 8-Methyladenine H O-amino acid CH₃ OH H O 8-Methylhypoxanthine H O-amino acid CH₃ OH H O 5-Fluoro-6-Methyluracil H O-amino acid CH₃ OH H O 5-Fluoro-8-methyladenine H O-amino acid CH₃ OH H O 2-Fluoro-8-methylhypoxanthine H O-amino acid CH₃ OH H O 2-Fluoro-8-methylhypoxanthine H O-amino acid CH₃ OH H O 2-Amino-8-methylhypoxanthine H O-amino acid CH₃ OH H O 2-N-acetyl-8-methylaguanine H O-amino acid CH₃ OH H O 4-N-acetyl-8-methylaguanine H O-amino acid CH₃ OH H O 6-N-acetyl-19-fluoro-8-methyladenine H O-amino acid CH₃ OH H O 6-N-acetyl-2-fluoro-8-methyladenine	CH ₃	ОН	H	О	8-Methylguanine	Н	O-amino acid
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CH₃ OH H O 5-Fluoro-6-Methyluracil H O-amino acid CH₃ OH H O 5-Fluoro-6-Methylcytosine H O-amino acid CH₃ OH H O 2-Fluoro-8-methylhypoxanthine H O-amino acid CH₃ OH H O 2-Fluoro-8-methylhypoxanthine H O-amino acid CH₃ OH H O 2-Amino-8-methylpoxanthine H O-amino acid CH₃ OH H O 2-Amino-8-methylpoxanthine H O-amino acid CH₃ OH H O 2-An-acetyl-8-methylguanine H O-amino acid CH₃ OH H O 4-N-acetyl-8-methyladenine H O-amino acid CH₃ OH H O 4-N-acetyl-8-methyladenine H O-amino acid CH₃ OH H O 6-N-acetyl-2-fluoro-8-methyladenine H O-amino acid CH₃ OH H O 6-N-acetyl-2-moro-8-m	CH ₃	ОН	Н	O	8-Methyladenine	Н	O-amino acid
CH₃ OH H O 5-Fluoro-6-Methylcytosine H O-amino acid CH₃ OH H O 2-Fluoro-8-methyladenine H O-amino acid CH₃ OH H O 2-Fluoro-8-methylpypoxanthine H O-amino acid CH₃ OH H O 2-Amino-8-methylpypoxanthine H O-amino acid CH₃ OH H O 2-Amino-8-methylpypoxanthine H O-amino acid CH₃ OH H O 2-N-acetyl-8-methylgytosine H O-amino acid CH₃ OH H O 4-N-acetyl-8-methylgytosine H O-amino acid CH₃ OH H O 4-N-acetyl-8-methylgytosine H O-amino acid CH₃ OH H O 4-N-acetyl-8-methylgytosine H O-amino acid CH₃ OH H O 4-N-acetyl-2-fluoro-8-methyladenine H O-amino acid CH₃ OH H O 6-N-acetyl-1-2-m	CH ₃	ОН	Н	О	8-Methylhypoxanthine	H	O-amino acid
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CH3 OH H O 6-Methylcytosine H O-acyl CH3 OH H O 8-Methyladenine H O-acyl CH3 OH H O 8-Methylhypoxanthine H O-acyl CH3 OH H O 5-Fluoro-6-Methylcytosine H O-acyl CH3 OH H O 5-Fluoro-6-Methylcytosine H O-acyl CH3 OH H O 2-Fluoro-8-methyladenine H O-acyl CH3 OH H O 2-Fluoro-8-methyladenine H O-acyl CH3 OH H O 2-Amino-8-methyladenine H O-acyl CH3 OH H O 2-N-acetyl-8-methylguanine H O-acyl CH3 OH H O 4-N-acetyl-8-methylgytosine H O-acyl CH3 OH H O 6-N-acetyl-8-methyladenine H O-acyl CH3 OH	CH ₃	OH	Н	О		Н	O-acyl
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CH ₃ OH H O 5-Fluoro-6-Methylcytosine H O-acyl CH ₃ OH H O 2-Fluoro-8-methyladenine H O-acyl CH ₃ OH H O 2-Fluoro-8-methylhypoxanthine H O-acyl CH ₃ OH H O 2-Amino-8-methylhypoxanthine H O-acyl CH ₃ OH H O 2-Amino-8-methylhypoxanthine H O-acyl CH ₃ OH H O 2-N-acetyl-8-methylguanine H O-acyl CH ₃ OH H O 4-N-acetyl-8-methylcytosine H O-acyl CH ₃ OH H O 6-N-acetyl-8-methylcytosine H O-acyl CH ₃ OH H O 4-N-acetyl-5-fluoro-8-methylcytosine H O-acyl CH ₃ OH H O 6-N-acetyl-2-fluoro-8-methyladenine H O-acyl CH ₃ OH H O 6-N-acetyl-2-amino-8-methyladenine H O-acyl CH ₃ OH H O 2-N-acetyl-2-amino-8-methyladenine H O-acyl CH ₃ OH H O 2-N-acetyl-2-amino-8-methyladenine H O-acyl CH ₃ OH H O 6-N-acetyl-2-amino-8-methyladenine H O-acyl CH ₃ OH F O 6-Methyltymine F O-amino acid CH ₃ H F O 6-Methyltymine F O-amino acid	CH ₃	OH	Н	0	8-Methylhypoxanthine	Н	O-acyl
CH3OHHO5-Fluoro-6-MethylcytosineHO-acylCH3OHHO2-Fluoro-8-methyladenineHO-acylCH3OHHO2-Fluoro-8-methylhypoxanthineHO-acylCH3OHHO2-Amino-8-methyladenineHO-acylCH3OHHO2-Amino-8-methylhypoxanthineHO-acylCH3OHHO2-N-acetyl-8-methylguanineHO-acylCH3OHHO4-N-acetyl-8-methylcytosineHO-acylCH3OHHO6-N-acetyl-8-methyladenineHO-acylCH3OHHO6-N-acetyl-5-fluoro-8-methyladenineHO-acylCH3OHHO6-N-acetyl-2-fluoro-8-methyladenineHO-acylCH3OHHO6-N-acetyl-2-amino-8-methyladenineHO-acylCH3OHHO2-N-acetylamino-8-methyladenineHO-acylCH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethylthymineFO-amino acid	CH ₃	OH	H	0	5-Fluoro-6-Methyluracil	Н	O-acyl
CH3OHHO2-Fluoro-8-methyladenineHO-acylCH3OHHO2-Fluoro-8-methylhypoxanthineHO-acylCH3OHHO2-Amino-8-methyladenineHO-acylCH3OHHO2-Amino-8-methylhypoxanthineHO-acylCH3OHHO2-N-acetyl-8-methylguanineHO-acylCH3OHHO4-N-acetyl-8-methyladenineHO-acylCH3OHHO6-N-acetyl-8-methyladenineHO-acylCH3OHHO6-N-acetyl-5-fluoro-8-methyladenineHO-acylCH3OHHO6-N-acetyl-2-fluoro-8-methyladenineHO-acylCH3OHHO6-N-acetyl-2-amino-8-methyladenineHO-acylCH3OHHO2-N-acetylamino-8-methyladenineHO-acylCH3OHHO2-N-acetylamino-8-methyladenineHO-acylCH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethylthymineFO-amino acid	CH ₃	OH	H	O	5-Fluoro-6-Methylcytosine	Н	
CH3OHHO2-Fluoro-8-methylhypoxanthineHO-acylCH3OHHO2-Amino-8-methyladenineHO-acylCH3OHHO2-Amino-8-methylhypoxanthineHO-acylCH3OHHO2-N-acetyl-8-methylguanineHO-acylCH3OHHO4-N-acetyl-8-methylcytosineHO-acylCH3OHHO6-N-acetyl-8-methyladenineHO-acylCH3OHHO6-N-acetyl-5-fluoro-8-methylcytosineHO-acylCH3OHHO6-N-acetyl-2-fluoro-8-methyladenineHO-acylCH3OHHO6-N-acetyl-2-amino-8-methyladenineHO-acylCH3OHHO2-N-acetylamino-8-methyladenineHO-acylCH3OHHO2-N-acetylamino-8-methyladenineHO-acylCH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethylthymineFO-amino acid	CH ₃	OH	Н	O		Н	·
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CH3OHHO2-Amino-8-methylhypoxanthineHO-acylCH3OHHO2-N-acetyl-8-methylguanineHO-acylCH3OHHO4-N-acetyl-8-methylcytosineHO-acylCH3OHHO6-N-acetyl-8-methyladenineHO-acylCH3OHHO4-N-acetyl-5-fluoro-8-methylcytosineHO-acylCH3OHHO6-N-acetyl-2-fluoro-8-methyladenineHO-acylCH3OHHO6-N-acetyl-2-amino-8-methyladenineHO-acylCH3OHHO2-N-acetylamino-8-methyladenineHO-acylCH3OHHO2-N-acetylamino-8-methyladenineHO-acylCH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethyltracilFO-amino acid	CH ₃	ОН	Н	0	2-Amino-8-methyladenine	Н	
CH3OHHO2-N-acetyl-8-methylguanineHO-acylCH3OHHO4-N-acetyl-8-methylcytosineHO-acylCH3OHHO6-N-acetyl-8-methyladenineHO-acylCH3OHHO4-N-acetyl-5-fluoro-8-methylcytosineHO-acylCH3OHHO6-N-acetyl-2-fluoro-8-methyladenineHO-acylCH3OHHO6-N-acetyl-2-amino-8-methyladenineHO-acylCH3OHHO2-N-acetylamino-8-methyladenineHO-acylCH3OHHO2-N-acetylamino-8-methyladenineHO-acylCH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethylturacilFO-amino acid			Н		<u> </u>	Н	
CH3OHHO4-N-acetyl-8-methylcytosineHO-acylCH3OHHO6-N-acetyl-8-methyladenineHO-acylCH3OHHO4-N-acetyl-5-fluoro-8-methylcytosineHO-acylCH3OHHO6-N-acetyl-2-fluoro-8-methyladenineHO-acylCH3OHHO6-N-acetyl-2-amino-8-methyladenineHO-acylCH3OHHO2-N-acetylamino-8-methyladenineHO-acylCH3OHHO2-N-acetylamino-8-methyladenineHO-acylCH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethylthymineFO-amino acid							
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CH ₃ OH H O 2-N-acetylamino-8- methylhypoxanthine CH ₃ H F O 6-Methylthymine F O-amino acid CH ₃ H F O 6-Methyluracil F O-amino acid			₩——	_			
methylhypoxanthineCH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethyluracilFO-amino acid		 					
CH3HFO6-MethylthymineFO-amino acidCH3HFO6-MethyluracilFO-amino acid	-1.5						
CH ₃ H F O 6-Methyluracil F O-amino acid	CH ₂	H	F	0		F	O-amino acid
							
	CH ₃	Н	F	ō	8-Methylguanine	F	O-amino acid

R^6	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	F	О	6-Methylcytosine	F	O-amino acid
CH ₃	Н	F	О	8-Methyladenine	F	O-amino acid
CH ₃	Н	F	О	8-Methylhypoxanthine	F	O-amino acid
CH ₃	Н	F	О	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	H	F	0	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	H	F	O	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	Н	F	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	Н	F	О	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	Н	F	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	F	Ō	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	Н	F ·	О	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	Н	F	О	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	Н	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	H	F	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	Н	F	О	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	Н	F	О	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	Н	F	О	2-N-acetylamino-8-	F	O-amino acid
				methylhypoxanthine	1	
CH ₃	<u>H</u> .	F	О	6-Methylthymine	F	O-acyl
CH ₃	Н	F	О	6-Methyluracil	F	O-acyl
CH ₃	H	F	0	8-Methylguanine	F	O-acyl
CH ₃	Н	F	O	6-Methylcytosine	F	O-acyl
CH ₃	Н	F	O	8-Methyladenine	F	O-acyl
CH ₃	Н	F	О	8-Methylhypoxanthine	F	O-acyl
CH ₃	Н	F	О	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	Н	F	0	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	Η .	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	Н	F	О	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	Н	F	О	2-Amino-8-methyladenine	F	O-acyl
CH ₃	Н	F	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	Н	F	О	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	Н	F	О	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	Н	F	О	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	Н	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	Н	F	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	Н	F	О	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	Н	F	О	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	Н	F	О	2-N-acetylamino-8-	F	O-acyl
				methylhypoxanthine		
CH ₃	H	F	О	6-Methylthymine	Br	O-amino acid
CH ₃	H	F	O	6-Methyluracil	Br	O-amino acid
CH ₃	Н	F	О	8-Methylguanine	Br	O-amino acid
CH ₃	Н	F	О	6-Methylcytosine	Br	O-amino acid
CH ₃	Н	F	0	8-Methyladenine	Br	O-amino acid
CH ₃	Н	F	О	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	Н	F	О	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	Н	F	О	5-Fluoro-6-Methylcytosine	Br	O-amino acid

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	F	О	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	Н	F.	О	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	Н	F	0	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	Н	F	О	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	H	F	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	Н	F	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	Н	F	0	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	Н	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	Н	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	Н	F	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	Н	F	О	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	Н	F	0	2-N-acetylamino-8-	Br	O-amino acid
		ļ		methylhypoxanthine		
CH ₃	Н	F	O	6-Methylthymine	Br	O-acyl
CH ₃	Н	F	O	6-Methyluracil	Br	O-acyl
CH ₃	Н	F	О	8-Methylguanine	Br	O-acyl
CH ₃	Н	F	0	6-Methylcytosine	Br	O-acyl
CH ₃	Н	F	0	8-Methyladenine	Br	O-acyl
CH ₃	H	F	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	Н	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	Н	F	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	Н	F	O	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	Н	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	Н	F	O	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	Н	F	0	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	Н	F	0	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	Н	F	0	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	Н	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	Н	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	Н	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	Н	F	Ō	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	Н	F	О	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	Н	F	O	2-N-acetylamino-8-	Br	O-acyl
	ļ		ľ	methylhypoxanthine		
CH ₃	H	F	O	6-Methylthymine	Cl	O-amino acid
CH ₃	Н	F	О	6-Methyluracil	Cl	O-amino acid
CH ₃	Н	F	О	8-Methylguanine	Cl	O-amino acid
CH ₃	Н	F	О	6-Methylcytosine	Cĺ	O-amino acid
CH ₃	Н	F	O	8-Methyladenine	Cl	O-amino acid
CH ₃	Н	F	О	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	H	F	О	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	Н	F	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	Н	F	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	Н	F	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	F	ō	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	H	F	Ō	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	H	F	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
		ı =			1	1

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	F	О	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	Н	F	О	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	Н	F.	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	Н	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	Н	F	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	Н	F	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	Н	F	O	2-N-acetylamino-8-	Cl	O-amino acid
				methylhypoxanthine	'	•
CH ₃	Ĥ	F	О	6-Methylthymine	Cl	O-acyl
CH ₃	Н	F	0	6-Methyluracil	Cl	O-acyl
CH ₃	Н	F	0	8-Methylguanine	Cl	O-acyl
CH ₃	Н	F	• O	6-Methylcytosine	Cl	O-acyl
CH ₃	Н	F	O	8-Methyladenine	Cl	O-acyl
CH ₃	Н	F	O	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	Н	F	О	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	Н	F	О	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	Н	F	О	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	H	F	О	2-Fluoro-8-methylhypoxanthine	CÎ	O-acyl
CH ₃	Н	F	Ó	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	Н	F	О	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	Н	F	О	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	Н	F	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	Н	F	О	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	Н	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	Н	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	Н	F	o	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	H	F	0	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	Н	F	О	2-N-acetylamino-8-	Cl	O-acyl
				methylhypoxanthine	1	
CH ₃	Н	F	О	6-Methylthymine	Н	O-amino acid
CH ₃	Н	F	0	6-Methyluracil	Н	O-amino acid
CH ₃	Н	F	0	8-Methylguanine	Н	O-amino acid
CH ₃	Н	F	О	6-Methylcytosine	Н	O-amino acid
CH ₃	Н	F	0	8-Methyladenine	Н	O-amino acid
CH ₃	Н	F	0	8-Methylhypoxanthine	Н	O-amino acid
CH ₃	Н	F	O	5-Fluoro-6-Methyluracil	Н	O-amino acid
CH ₃	Н	F	0	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	Н	F	0	2-Fluoro-8-methyladenine	Н	O-amino acid
CH ₃	Н	F	0	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CH ₃	Н	F	0	2-Amino-8-methyladenine	Н	O-amino acid
CH ₃	Н	F	O	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CH ₃	Н	F	О	2-N-acetyl-8-methylguanine	Н	O-amino acid
CH ₃	Н	F	0	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CH ₃	Н	F	О	6-N-acetyl-8-methyladenine	Н	O-amino acid
CH ₃	Н	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CH ₃	Н	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CH ₃	Н	F	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid

\mathbb{R}^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	F	О	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CH ₃	Н	F	О	2-N-acetylamino-8-	Н	O-amino acid
				methylhypoxanthine		
CH ₃	Н	F	0	6-Methylthymine	Н	O-acyl
CH ₃	Н	F	О	6-Methyluracil	Н	O-acyl
CH ₃	Н	F	О	8-Methylguanine	H	O-acyl
CH ₃	Н	F	0	6-Methylcytosine	H	O-acyl
CH ₃	Н	F	О	8-Methyladenine	H	O-acyl
CH ₃	Н	F	О	8-Methylhypoxanthine	H	O-acyl
CH ₃	Н	F	О	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	Н	F	О	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	Н	F	О	2-Fluoro-8-methyladenine	Н	O-acyl
CH ₃	H	F	О	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CH ₃	Н	F	0	2-Amino-8-methyladenine	Н	O-acyl
CH ₃	H	F	0	2-Amino-8-methylhypoxanthine	Н	O-acyl
CH ₃	Н	F	О	2-N-acetyl-8-methylguanine	Н	O-acyl
CH ₃	Н	F	О	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	H ·	F	О	6-N-acetyl-8-methyladenine	Н	O-acyl
CH ₃	Н	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CH ₃	H	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Ĥ	O-acyl
CH ₃	Н	F	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	H	F	О	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	. H	F	О	2-N-acetylamino-8-	Н	O-acyl
			<u> </u>	methylhypoxanthine		
CH ₃	Н	Br	О	6-Methylthymine	F	O-amino acid
CH ₃	Н	Br	0	6-Methyluracil	F	O-amino acid
CH ₃	H	Br	0	8-Methylguanine	F	O-amino acid
CH ₃	Н	Br	О	6-Methylcytosine	F	O-amino acid
CH ₃	Н	Br	О	8-Methyladenine	F	O-amino acid
CH ₃	H	Br	0	8-Methylhypoxanthine	F	O-amino acid
CH ₃	Н	Br	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	Н	Br	О	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	Н	Br	0	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	Br	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	Br	0	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	H	Br	0	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	H	Br	0	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	Н	Br	0	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	Н	Br	0	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	H	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	H	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	Br	0	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	H	Br	0	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	Н	Br	О	2-N-acetylamino-8-	F	O-amino acid
		1	1_	methylhypoxanthine	1	
CH ₃	H	Br	O	6-Methylthymine	F	O-acyl
CH ₃	Н	Br	0	6-Methyluracil	F	O-acyl

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	Br	0	8-Methylguanine	F	O-acyl
CH ₃	Н	Br	0	6-Methylcytosine	F	O-acyl
CH ₃	Н	Br	O	8-Methyladenine	F	O-acyl
CH ₃	Н	Br	О	8-Methylhypoxanthine	F	O-acyl
CH ₃	Н	Br	O	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	Н	Br	О	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	Н	Br	О	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	H	Br	О	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	Н	Br	О	2-Amino-8-methyladenine	F	O-acyl
CH ₃	Н	Br	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	Н	Br	О	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	Н	Br	О	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	Н	Br	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	Н	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	Н	Br	Ó	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	Н	Br	О	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	Н	Br	О	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	Н	Br	О	2-N-acetylamino-8-	F	O-acyl
1		İ	1	methylhypoxanthine		
CH ₃	Н	Br	О	6-Methylthymine	Br	O-amino acid
CH ₃	Н	Br	О	6-Methyluracil	Br	O-amino acid
CH ₃	Н	Br	О	8-Methylguanine	Br	O-amino acid
CH ₃	Н	Br	О	6-Methylcytosine	Br	O-amino acid
CH ₃	Н	Br	О	8-Methyladenine	Br	O-amino acid
CH ₃	Н	Br	О	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	Н	Br	О	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	Н	Br	О	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	Н	Br	О	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	Н	Br	О	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	Н	Br	О	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	H	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	Н	Br	О	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	H	Br	0_	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	Н	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	H	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	Н	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	H	Br	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	Н	Br	О	2-N-acetylamino-8-	Br	O-amino acid
<u></u>		<u> </u>	L	methylhypoxanthine	1	
CH ₃	H	Br	O	6-Methylthymine	Br	O-acyl
CH ₃	H	Br	O	6-Methyluracil	Br	O-acyl
CH ₃	Н	Br	0	8-Methylguanine	Br	O-acyl
CH ₃	H	Br	O	6-Methylcytosine	Br	O-acyl
CH ₃	Н	Br	O	8-Methyladenine	Br	O-acyl
CH ₃	H	Br	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	H	Br	O	5-Fluoro-6-Methyluracil	Br	O-acyl

R ⁶	\mathbf{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	Br	Ó	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	Н	Br	0	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	Н	Br	0	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	Н	Br	0	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	Н	Br	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	Н	Br	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	Н	Br	О	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	Ĥ	Br	О	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	Н	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	Н	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	Н	Br	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	Н	Br	О	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	Н	Br	О	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine		
CH ₃	Н	Br	О	6-Methylthymine	Cl	O-amino acid
CH ₃	Н	Br	O	6-Methyluracil	Cl	O-amino acid
CH ₃	Н	Br	О	8-Methylguanine	Cl	O-amino acid
CH ₃	Н	Br	О	6-Methylcytosine	Cl	O-amino acid
CH ₃	Н	Br	0	8-Methyladenine	Cl	O-amino acid
CH ₃	H	Br	О	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	Н	Br	О	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	H	Br	О	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	Н	Br	О	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	Η .	Br	О	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	Ĥ	Br	О	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Br	О	2-Amino-8-methylhypoxanthine	CI	O-amino acid
CH ₃	H	Br	О	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	Н	Br	О	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	Н	Br	0	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	Н	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Br	0	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Br	0	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Br	О	2-N-acetylamino-8-	Cl	O-amino acid
				methylhypoxanthine		
CH ₃	Н	Br	О	6-Methylthymine	Cl	O-acyl
CH ₃	Н	Br	О	6-Methyluracil	Cl	O-acyl
CH ₃	H	Br	О	8-Methylguanine	Cl	O-acyl
CH ₃	Н	Br	О	6-Methylcytosine	Cl	O-acyl
CH ₃	Н	Br	О	8-Methyladenine	Cl	O-acyl
CH ₃	H	Br	О	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	Н	Br	0	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	H	Br	О	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	Н	Br	0	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	Н	Br	О	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	Н	Br	О	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	Н	Br	О	2-Amino-8-methylhypoxanthine	Cl	O-acyl

R ⁶	\mathbf{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	Br	О	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	Н	Br	О	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	Н	Br	О	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	H	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	Н	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	CI	O-acyl
CH ₃	H	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	Н	Br	О	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	Н	Br	О	2-N-acetylamino-8-	Cl	O-acyl
		[methylhypoxanthine		
CH ₃	Н	Br	О	6-Methylthymine	Н	O-amino acid
CH ₃	Н	Br	О	6-Methyluracil	H	O-amino acid
CH ₃	Н	Br	0	8-Methylguanine	H	O-amino acid
CH ₃	Н	Br	О	6-Methylcytosine	Н	O-amino acid
CH ₃	Н	Br	O	8-Methyladenine	Н	O-amino acid
CH ₃	Н	Br	О	8-Methylhypoxanthine	Н	O-amino acid
CH ₃	Н	Br	О	5-Fluoro-6-Methyluracil	H	O-amino acid
CH ₃	Н	Br	O	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	Н	Br	O	2-Fluoro-8-methyladenine	Н	O-amino acid
CH ₃	Н	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CH ₃	Н	Br	O	2-Amino-8-methyladenine	Н	O-amino acid
CH ₃	Н	Br	o	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CH ₃	Н	Br	O	2-N-acetyl-8-methylguanine	H	O-amino acid
CH ₃	Н	Br	ō	4-N-acetyl-8-methylcytosine	H	O-amino acid
CH ₃	Н	Br	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CH ₃	Н	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CH ₃	H	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CH ₃	Н	Br	Ō	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CH ₃	H	Br	O	2-N-acetylamino-8-methyladenine	H	O-amino acid
CH ₃	H	Br	O	2-N-acetylamino-8-	H	O-amino acid
				methylhypoxanthine		
CH ₃	Н	Br	O	6-Methylthymine	Н	O-acyl
CH ₃	Н	Br	0	6-Methyluracil	Н	O-acyl
CH ₃	Н	Br	0	8-Methylguanine	Н	O-acyl
CH ₃	Н	Br	0	6-Methylcytosine	Н	O-acyl
CH ₃	Н	Br	О	8-Methyladenine	Н	O-acyl
CH ₃	Н	Br	O	8-Methylhypoxanthine	H	O-acyl
CH ₃	Н	Br	O	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	Н	Br	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CH ₃	Н	Br	O	2-Fluoro-8-methyladenine	H	O-acyl
CH ₃	Н	Br	O	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	H	Br	ō	2-Amino-8-methyladenine	H	O-acyl
CH ₃	H	Br	ō	2-Amino-8-methylhypoxanthine	H	O-acyl
CH ₃	H	Br	o	2-N-acetyl-8-methylguanine	H	O-acyl
CH ₃	H	Br	ŏ	4-N-acetyl-8-methylcytosine	Н	O-acyl
CH ₃	H	Br	o	6-N-acetyl-8-methyladenine	H	O-acyl
CH ₃	H	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	H	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
<u> </u>	<u>* *</u>	וטו	U	0-14-acceyi-2-madio-o-memyiademne	111	O-acyi

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	Br	Ο.	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	H	Br	О	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	Н	Br	O	2-N-acetylamino-8-	H	O-acyl
				methylhypoxanthine		
CH ₃	Н	Cl	О	6-Methylthymine	F	O-amino acid
CH ₃	Н	Cl	O	6-Methyluracil	F	O-amino acid
CH ₃	H	Cl	О	8-Methylguanine	F	O-amino acid
CH ₃	Н	Cl	О	6-Methylcytosine	F	O-amino acid
CH ₃	H	Cl	О	8-Methyladenine	F	O-amino acid
CH ₃	Н	Cl	О	8-Methylhypoxanthine	F	O-amino acid
CH ₃	Н	Cl	О	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	Н	CI	О	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	H	Cl	О	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	Н	Cl	О	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	Н	Cl	О	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	H	Cl	О	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	Н	CI	О	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	Н	Cl	О	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	Н	Cļ	О	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	Н	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	Н	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	H	Cl	О	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	Н	Cl	О	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	Н	Cl	О	2-N-acetylamino-8-	F	O-amino acid
	-			methylhypoxanthine		
CH ₃	Н	CI	О	6-Methylthymine	F	O-acyl
CH ₃	H	Cl	О	6-Methyluracil	F	O-acyl
CH ₃	H	Cl	O	8-Methylguanine	F	O-acyl
CH ₃	H	CI	О	6-Methylcytosine	F	O-acyl
CH ₃	H	Cl	Ó	8-Methyladenine	F	O-acyl
CH ₃	H	Cl	О	8-Methylhypoxanthine	F	O-acyl
CH ₃	Н	Cl	О	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	Н	Cl	О	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	H	Cl	О	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	<u>H</u>	Cl	0	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	H	Cl	О	2-Amino-8-methyladenine	F	O-acyl
CH ₃	H	Cl	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	H	Cl	О	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	Н	Cl	О	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	H	Cl	0	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	H	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	Н	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	Н	Cl	О	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	Н	Cl	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	H	Cl	О	2-N-acetylamino-8-	F	O-acyl
				methylhypoxanthine		
CH ₃	Н	Cl	O	6-Methylthymine	Br	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	Cl	О	6-Methyluracil	Br	O-amino acid
CH ₃	Н	Cl	О	8-Methylguanine	Br	O-amino acid
CH ₃	Н	Cl	0	6-Methylcytosine	Br	O-amino acid
CH ₃	Н	Cl	О	8-Methyladenine	Br	O-amino acid
CH ₃	Н	Cl	О	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	Н	Cl	О	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	Н	Cl	0	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	Н	Cl	0	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	Н	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	Н	Cl	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	Н	Cl	0	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	Н	Cl	0	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	Н	CI	0	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	Н	Cl	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	Н	Çl	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	Н	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	Н	CI	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	Н	Cl	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	Н	Cl	0	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine	1	
CH ₃	Н	Cl	0	6-Methylthymine	Br	O-acyl
CH ₃	Н	Cl	O	6-Methyluracil	Br	O-acyl
CH ₃	Н	Cl	0	8-Methylguanine	Br	O-acyl
CH ₃	Н	Cl	0	6-Methylcytosine	Br	O-acyl
CH ₃	Н	Çl	.O	8-Methyladenine	Br	O-acyl
CH ₃	Н	Cl	O	8-Methylhypoxanthine	Br	O-acyl
CH ₃	Н	Cl	0	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	Н	Cl	О	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	Н	CI	0	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	Н	Cl	0	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	Н	Cl	0	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	Н	Cl	0	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	Н	Cl	О	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	H	Cl	О	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	Н	Cl	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	Н	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	Н	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	Н	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	Н	Cl	О	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	Н	Cl	О	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine		
CH ₃	Н	Cl	О	6-Methylthymine	Cl	O-amino acid
CH ₃	Н	Cl	0	6-Methyluracil	Cl	O-amino acid
CH ₃	Н	Cl	0	8-Methylguanine	Cl	O-amino acid
CH ₃	Н	Cl	О	6-Methylcytosine	Cl	O-amino acid
CH ₃	Н	Cl	O	8-Methyladenine	Cl	O-amino acid
CH ₃	Н	Cl	О	8-Methylhypoxanthine	Cl	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	Cl	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	Н	Cl	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	Н	Cl	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Cl	0	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	Н	Cl	0	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Cl	О	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	Н	Cl	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	Н	Cl	О	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	Н	Cl	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Cl	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	Н	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Cl	Ō	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Cl	Ō	2-N-acetylamino-8-	CI	O-amino acid
				methylhypoxanthine	-	
CH ₃	Н	Cl	O	6-Methylthymine	Cl	O-acyl
CH ₃	Н	Cl	o	6-Methyluracil	Cl	O-acyl
CH ₃	H	Cl	O	8-Methylguanine	Cl	O-acyl
CH ₃	Н	Cl	ō	6-Methylcytosine	Cl	O-acyl
CH ₃	Н	Cl	o	8-Methyladenine	Cl	O-acyl
CH ₃	Н	Cl	o	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	Н	Cl	o	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	Н	Cl	o	5-Fluoro-6-Methylcytosine	CI	O-acyl
CH ₃	Н	Cl	ō	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	Н	Cl	ŏ	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	Н	Cl	o	2-Amino-8-methyladenine	CI	O-acyl
CH ₃	Н	Cl	0	2-Amino-8-methylhypoxanthine	.CI	O-acyl
CH ₃	Н	Cl	ō	2-N-acetyl-8-methylguanine	CI	O-acyl
CH ₃	H	Cl	o	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	H	Cl	O	6-N-acetyl-8-methyladenine	CI	O-acyl
CH ₃	Н	Cl	o	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	Н	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	CI	O-acyl
CH ₃	H	CI	o	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	Н	CI	o	2-N-acetylamino-8-methyladenine	CI	O-acyl
CH ₃	Н	Cl	o	2-N-acetylamino-8-	CI	O-acyl
0113				methylhypoxanthine		
CH ₃	Н	Cl	o	6-Methylthymine	Н	O-amino acid
CH ₃	H	Cl	o	6-Methyluracil	H	O-amino acid
CH ₃	H	Cl	o	8-Methylguanine	H	O-amino acid
CH ₃	H	Cl	o	6-Methylcytosine	H	O-amino acid
CH ₃	H	CI	o	8-Methyladenine	H	O-amino acid
CH ₃	H	Cl	0	8-Methylhypoxanthine	H	O-amino acid
CH ₃	Н	Cl	0	5-Fluoro-6-Methyluracil	Н	O-amino acid
CH ₃	Н	Cl	0	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	Н	Cl	0	2-Fluoro-8-methyladenine	Н	O-amino acid
CH ₃	Н	Cl	0	2-Fluoro-8-methyladennie	Н	O-amino acid
	Н	Cl	0		H	
CH ₃	lα	UI	$\perp 0$	2-Amino-8-methyladenine	Тп	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	Cl	О	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CH ₃	Н	Cl	О	2-N-acetyl-8-methylguanine	Н	O-amino acid
CH ₃	Н	Cl_	O	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CH ₃	H	Cl	O	6-N-acetyl-8-methyladenine	Н	O-amino acid
CH ₃	H	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CH ₃	Н	CI	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CH ₃	Н	Cl	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CH ₃	Н	Cl	0	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CH ₃	Н	Cl	О	2-N-acetylamino-8-	Н	O-amino acid
	.			methylhypoxanthine		
CH ₃	Н	Cl	О	6-Methylthymine	Н	O-acyl
CH ₃	Н	Cl	О	6-Methyluracil	Н	O-acyl
CH ₃	Н	CI	0	8-Methylguanine	Н	O-acyl
CH ₃	Н	Cl	O	6-Methylcytosine	Н	O-acyl
CH ₃	Н	Cl	O	8-Methyladenine	H	O-acyl
CH ₃	Н	Cl	О	8-Methylhypoxanthine	Н	O-acyl
CH ₃	Н	Cl	О	5-Fluoro-6-Methyluracil	H	O-acyl
CH ₃	Н	Cl	0	5-Fluoro-6-Methylcytosine	Н	O-acyl
CH ₃	Н	Cl	О	2-Fluoro-8-methyladenine	Н	O-acyl
CH ₃	Н	Cl	О	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CH ₃	H	Cl	O	2-Amino-8-methyladenine	Н	O-acyl
CH ₃	Н	Cl	О	2-Amino-8-methylhypoxanthine	Н	O-acyl
CH ₃	Н	Cl	О	2-N-acetyl-8-methylguanine	Н	O-acyl
CH ₃	Н	Cl	О	4-N-acetyl-8-methylcytosine	Н	O-acyl
CH ₃	Н	Cl	О	6-N-acetyl-8-methyladenine	Н	O-acyl
CH ₃	Н	CI	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CH ₃	Н	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CH ₃	Н	CI	O	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	Н	Cl	О	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	Н	Cl	O	2-N-acetylamino-8-	Н	O-acyl
i -		İ		methylhypoxanthine		
CH ₃	Н	Н	О	6-Methylthymine	F	O-amino acid
CH ₃	Н	Н	O	6-Methyluracil	F	O-amino acid
CH ₃	Н	Н	0	8-Methylguanine	F	O-amino acid
CH ₃	Н	Н	0	6-Methylcytosine	F	O-amino acid
CH ₃	Н	Н	0	8-Methyladenine	F	O-amino acid
CH ₃	Н	Н	0	8-Methylhypoxanthine	F	O-amino acid
CH ₃	Н	Н	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	Н	Н	Ō	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	Н	Н	Ō	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	Н	H	ō	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	Н	H	o	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	H	H	ŏ	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	Н	Н	ō	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	Н	Н	o	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	H	Н	o	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	Н	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
C113	L * 1	111	17			O-animo acid

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	Н	Н	О	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	Н	Н	0	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	Н	Н	0	2-N-acetylamino-8-	F	O-amino acid
				methylhypoxanthine	1.	
CH ₃	Н	Н	0	6-Methylthymine	F	O-acyl
CH ₃	Н	Н	О	6-Methyluracil	F	O-acyl
CH ₃	Н	Н	О	8-Methylguanine	F	O-acyl
CH ₃	Н	Н	O	6-Methylcytosine	F	O-acyl
CH ₃	Н	Н	0	8-Methyladenine	F	O-acyl
CH ₃	H	Н	О	8-Methylhypoxanthine	F	O-acyl
CH ₃	Н	Н	О	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	Н	Н	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	Н	H.	О	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	Н	Н	О	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	Н	Н	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	Н	H	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	Н	Н	0	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	Н	Н	О	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	Н	Н	0	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	Н	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	Н	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	Н	Н	0	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	Н	Н	0	2-N-acetylamino-8-methyladenine	F	O-acyl
CH ₃	Н	Н	О	2-N-acetylamino-8-	F	O-acyl
			}	methylhypoxanthine		,
CH ₃	Н	Н	О	6-Methylthymine	Br	O-amino acid
CH ₃	Н	Н	0	6-Methyluracil	Br	O-amino acid
CH ₃	Н	Н	O	8-Methylguanine	Br	O-amino acid
CH ₃	Н	Н	О	6-Methylcytosine	Br	O-amino acid
CH ₃	Н	Н	O	8-Methyladenine	Br	O-amino acid
CH ₃	Н	Н	О	8-Methylhypoxanthine	Br	O-amino acid
CH ₃		Н	О	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	H	Н	О	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	Н	Н	О	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	Н	Н	О	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	Н	Н	О	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	Н	Н	О	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	Н	Н	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	Н	Н	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	Н	Н	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	Н	Н	Ō	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	Н	Н	Ō	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	Н	Н	Ō	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	Н	Н	ō	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	Н	Н	o	2-N-acetylamino-8-	Br	O-amino acid
~~,				methylhypoxanthine		
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R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	Н	О	6-Methylthymine	Br	O-acyl
CH ₃	H	Н	О	6-Methyluracil	Br	O-acyl
CH ₃	Н	Н	0	8-Methylguanine	Br	O-acyl
CH ₃	H	Н	О	6-Methylcytosine	Br	O-acyl
CH ₃	Н	H	О	8-Methyladenine	Br	O-acyl
CH ₃	Н	Н	О	8-Methylhypoxanthine	Br	O-acyl
CH ₃	Н	Н	О	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	Н	Н	О	5-Fluoro-6-Methylcytosine	Br	O-acyl
CH ₃	Н	Н	О	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	Ĥ	Н	О	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	Н	Н	0	2-Amino-8-methyladenine	Br	O-acyl
CH ₃	Н	Н	0	2-Amino-8-methylhypoxanthine	Br	O-acyl
CH ₃	Н	Н	О	2-N-acetyl-8-methylguanine	Br	O-acyl
CH ₃	H	Н	О	4-N-acetyl-8-methylcytosine	Br	O-acyl
CH ₃	Н	Н	О	6-N-acetyl-8-methyladenine	Br	O-acyl
CH ₃	Н	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CH ₃	Н	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃	Н	Н	0	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	Н	Н	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	Н	Н	0	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine		
CH ₃	Н	Н	O	6-Methylthymine	Cl	O-amino acid
CH ₃	Н	Н	О	6-Methyluracil	Cl	O-amino acid
CH ₃	Н	Н	О	8-Methylguanine	Cl	O-amino acid
CH ₃	Н	Н	O	6-Methylcytosine	Cl	O-amino acid
CH ₃	Н	Н	О	8-Methyladenine	Cl	O-amino acid
CH ₃	Н	Н	O	8-Methylhypoxanthine	CI	O-amino acid
CH ₃	Н	Н	О	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	Н	Н	О	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	Н	Н	О	2-Fluoro-8-methyladenine	CI	O-amino acid
CH ₃	Н	H	О	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	Н	Н	О	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Н	О	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	Н	Н	О	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CH ₃	Н	Н	О	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	Н	Н	O	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	Н	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	Ci	O-amino acid
CH ₃	Н	Н	Ō	6-N-acetyl-2-fluoro-8-methyladenine	CI	O-amino acid
CH ₃	Н	Н	ō	6-N-acetyl-2-amino-8-methyladenine	CI	O-amino acid
CH ₃	Н	Н	ō	2-N-acetylamino-8-methyladenine	CI	O-amino acid
CH ₃	Н	Н	O	2-N-acetylamino-8-	CI	O-amino acid
C+				methylhypoxanthine		
CH ₃	Н	Н	О	6-Methylthymine	CI	O-acyl
CH ₃	Н	Н	o	6-Methyluracil	Cl	O-acyl
CH ₃	Н	Н	o	8-Methylguanine	CI	O-acyl
CH ₃	Н	Н	o	6-Methylcytosine	Cl	O-acyl
CH ₃	Н	Н	o	8-Methyladenine	Cl	O-acyl
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R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	Н	О	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	Н	Н	О	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	H	Н	0	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	Н	Н	О	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	Н	Н	О	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	Н	Н	0	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	Н	Н	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	Н	Н	О	2-N-acetyl-8-methylguanine	Cl	O-acyl
CH ₃	Н	Н	О	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	Н	Н	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	Н	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	Н	Н	O	6-N-acetyl-2-fluoro-8-methyladenine	CI	O-acyl
CH ₃	Н	Н	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	Н	Н	О	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	H	Н	O	2-N-acetylamino-8-	Cl	O-acyl
		,		methylhypoxanthine	ŀ	
CH ₃	Н	Н	O	6-Methylthymine	I	O-amino acid
CH ₃	Н	Н	О	6-Methyluracil	I	O-amino acid
CH ₃	Н	Н	O	8-Methylguanine	I	O-amino acid
CH ₃	H	Н	О	6-Methylcytosine	I	O-amino acid
CH ₃	Н	H.	O	8-Methyladenine	I	O-amino acid
CH ₃	H	Н	О	8-Methylhypoxanthine	I	O-amino acid
CH ₃	Н	Н	O	5-Fluoro-6-Methyluracil	I	O-amino acid
CH ₃	H	Н	О	5-Fluoro-6-Methylcytosine	I	O-amino acid
CH ₃	H	Н	О	2-Fluoro-8-methyladenine	I	O-amino acid
CH ₃	Н	Н	O	2-Fluoro-8-methylhypoxanthine	I	O-amino acid
CH ₃	Н	Н	O.	2-Amino-8-methyladenine	I	O-amino acid
CH ₃	Н	Н	0	2-Amino-8-methylhypoxanthine	I	O-amino acid
CH ₃	Н	Н	О	2-N-acetyl-8-methylguanine	I	O-amino acid
CH ₃	Н	Н	О	4-N-acetyl-8-methylcytosine	I	O-amino acid
CH ₃	Н	Н	O	6-N-acetyl-8-methyladenine	I	O-amino acid
CH ₃	Н	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	I	O-amino acid
CH ₃	H	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	I	O-amino acid
CH ₃	Н	Н	O	6-N-acetyl-2-amino-8-methyladenine	I	O-amino acid
CH ₃	H	Н	О	2-N-acetylamino-8-methyladenine	I	O-amino acid
CH ₃	Н	Н	О	2-N-acetylamino-8-	I	O-amino acid
				methylhypoxanthine	_[
CH ₃	H	Η.	О	6-Methylthymine	I	O-acyl
CH ₃	Н	Н	О	6-Methyluracil	I	O-acyl
CH ₃	Н	Н	О	8-Methylguanine	I	O-acyl
CH ₃	H	Н	О	6-Methylcytosine	I	O-acyl
CH ₃	Н	Н	О	8-Methyladenine	I	O-acyl
CH ₃	Н	Н	О	8-Methylhypoxanthine	I	O-acyl
CH ₃	Н	Н	О	5-Fluoro-6-Methyluracil	I	O-acyl
CH ₃	Н	Н	Ó	5-Fluoro-6-Methylcytosine	I	O-acyl
CH ₃	Н	Н	О	2-Fluoro-8-methyladenine	I	O-acyl
CH ₃	Н	Н	О	2-Fluoro-8-methylhypoxanthine	I	O-acyl



R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CH ₃	Н	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CH ₃	Н	Н	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	H	Н	О	2-N-acetylamino-8-methyladenine	H	O-acyl
CH ₃	H ·	Н	О	2-N-acetylamino-8-	Н	O-acyl
				methylhypoxanthine		
CH ₃	Н	ОН	Ö	6-Methylthymine	F	O-amino acid
CH ₃	Н	OH	О	6-Methyluracil	F	O-amino acid
CH ₃	H	OH	0	8-Methylguanine	F	O-amino acid
CH ₃	Н	ОН	O	6-Methylcytosine	F	O-amino acid
CH ₃	Η .	ОН	О	8-Methyladenine	F	O-amino acid
CH ₃	Н	ОН	О	8-Methylhypoxanthine	F	O-amino acid
CH ₃	Н	ОН	О	5-Fluoro-6-Methyluracil	F	O-amino acid
CH ₃	Н	OH	0	5-Fluoro-6-Methylcytosine	F	O-amino acid
CH ₃	Н	ОН	О	2-Fluoro-8-methyladenine	F	O-amino acid
CH ₃	Н	ОН	О	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CH ₃	Н	OH	О	2-Amino-8-methyladenine	F	O-amino acid
CH ₃	Н	ОН	О	2-Amino-8-methylhypoxanthine	F	O-amino acid
CH ₃	Н	ОН	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CH ₃	Н	ОН	О	4-N-acetyl-8-methylcytosine	F	O-amino acid
CH ₃	Н	OH	О	6-N-acetyl-8-methyladenine	F	O-amino acid
CH ₃	Н .	ОН	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CH ₃	Н	ОН	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CH ₃	Н	OH	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CH ₃	Н	ОН	О	2-N-acetylamino-8-methyladenine	F	O-amino acid
CH ₃	Ĥ	ОН	О	2-N-acetylamino-8-	F	O-amino acid
				methylhypoxanthine	L	
CH ₃	Н	OH	О	6-Methylthymine	F	O-acyl
CH ₃	Н	ОН	О	6-Methyluracil	F	O-acyl
CH ₃	Н	OH	О	8-Methylguanine	F	O-acyl
CH ₃	Н	OH	Ο	6-Methylcytosine	F	O-acyl
CH ₃	Н	ОН	О	8-Methyladenine	F	O-acyl
CH ₃	Н	ОН	О	8-Methylhypoxanthine	F	O-acyl
CH ₃	Н	OH	О	5-Fluoro-6-Methyluracil	F	O-acyl
CH ₃	Н	OH	0	5-Fluoro-6-Methylcytosine	F	O-acyl
CH ₃	Н	ОН	0	2-Fluoro-8-methyladenine	F	O-acyl
CH ₃	Н	OH	0	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CH ₃	Н	ОН	O	2-Amino-8-methyladenine	F	O-acyl
CH ₃	Н	OH	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CH ₃	Н	OH	0	2-N-acetyl-8-methylguanine	F	O-acyl
CH ₃	H	ОН	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CH ₃	Н	OH	O	6-N-acetyl-8-methyladenine	F	O-acyl
CH ₃	Н	ОН	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CH ₃	Н	ОН	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CH ₃	Н	ОН	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CH ₃	Н	ОН	О	2-N-acetylamino-8-methyladenine	F .	O-acyl
CH ₃	Н	ОН	0	2-N-acetylamino-8-	F	O-acyl

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
				methylhypoxanthine		
CH ₃	Н	ОН	O	6-Methylthymine	Br	O-amino acid
CH ₃	Н	ОН	О	6-Methyluracil	Br	O-amino acid
CH ₃	Н	OH	O	8-Methylguanine	Br	O-amino acid
CH ₃	Н	ОН	О	6-Methylcytosine	Br	O-amino acid
CH ₃	Н	ОН	O	8-Methyladenine	Br	O-amino acid
CH ₃	Н	ОН	0	8-Methylhypoxanthine	Br	O-amino acid
CH ₃	Н	ОН	O	5-Fluoro-6-Methyluracil	Br	O-amino acid
CH ₃	H	OH	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CH ₃	H	ОН	Ō	2-Fluoro-8-methyladenine	Br	O-amino acid
CH ₃	Н	ОН	o	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CH ₃	Н	OH	O	2-Amino-8-methyladenine	Br	O-amino acid
CH ₃	Н	OH	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CH ₃	Н	OH	ō	2-N-acetyl-8-methylguanine	Br	O-amino acid
CH ₃	H	OH	0	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CH ₃	H	OH	0	6-N-acetyl-8-methyladenine	Br	O-amino acid
CH ₃	H	OH	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CH ₃	H	OH	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CH ₃	H	OH	0	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CH ₃	H	OH	0	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CH ₃	H	OH	0	2-N-acetylamino-8-	Br	O-amino acid
CHI	11			methylhypoxanthine	Di	O-animo acid
CH ₃	Н	ОН	0	6-Methylthymine	Br	O-acyl
CH ₃	H	OH	0	6-Methyluracil	Br	O-acyl
CH ₃	H	OH	0	8-Methylguanine	Br	O-acyl
CH ₃	H	OH	0	6-Methylcytosine	Br	O-acyl
CH ₃	H	OH	0	8-Methyladenine	Br	O-acyl
CH ₃	H	OH	0	8-Methylhypoxanthine	Br	O-acyl
CH ₃	H	OH	0	5-Fluoro-6-Methyluracil	Br	O-acyl
CH ₃	H	OH	0	5-Fluoro-6-Methylcytosine	Вг	O-acyl
CH ₃	H	OH	0	2-Fluoro-8-methyladenine	Br	O-acyl
CH ₃	H	OH	0	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CH ₃	H	OH	0	2-Amino-8-methyladenine	Br	T =
CH ₃	H	ОН	0	2-Amino-8-methylhypoxanthine	Br	O-acyl O-acyl
CH ₃	H	OH	0	2-N-acetyl-8-methylguanine	Br	
CH ₃	H	OH	0	4-N-acetyl-8-methylcytosine		O-acyl
CH ₃	Н	OH	0	6-N-acetyl-8-methyladenine	Br Br	O-acyl
CH ₃	Н	ОН	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
			+			O-acyl
CH ₃	H	OH	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CH ₃		OH	0	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CH ₃	Н	OH	0	2-N-acetylamino-8-methyladenine	Br	O-acyl
CH ₃	Н	OH	О	2-N-acetylamino-8-	Br	O-acyl
CIT	11	OIT		methylhypoxanthine	- C1	0
CH ₃	H	OH	0	6-Methylthymine	Cl	O-amino acid
CH ₃	H	OH	0	6-Methyluracil	Cl	O-amino acid
CH ₃	H	OH	0	8-Methylguanine	Cl	O-amino acid
CH ₃	Н	OH	О	6-Methylcytosine	Cl	O-amino acid

\mathbb{R}^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	OH	0	8-Methyladenine	Cl	O-amino acid
CH ₃	Н	ОН	0	8-Methylhypoxanthine	Cl	O-amino acid
CH ₃	H	ОН	О	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CH ₃	Н	ОН	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CH ₃	Н	OH	0	2-Fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	Н	OH	Ó	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	Н	OH	О	2-Amino-8-methyladenine	Cl	O-amino acid
CH ₃	Н	ОН	0	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CH ₃	Н	OH	О	2-N-acetyl-8-methylguanine	CI	O-amino acid
CH ₃	Н	OH	О	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CH ₃	Н .	OH	0	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CH ₃	Н	OH	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CH ₃	H	ОĤ	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CH ₃	Н	ОН	0	6-N-acetyl-2-amino-8-methyladenine	CI	O-amino acid
CH ₃	H ·	ОН	0	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CH ₃	Н	ОН	О	2-N-acetylamino-8-	Cl	O-amino acid
				methylhypoxanthine		
CH ₃	Н	ОН	О	6-Methylthymine	Cl	O-acyl
CH ₃	Н	ОН	О	6-Methyluracil	Cl	O-acyl
CH ₃	Н	ОН	О	8-Methylguanine	Cl	O-acyl
CH ₃	Н	OH	О	6-Methylcytosine	Cl	O-acyl
CH ₃	Н	ОН	О	8-Methyladenine	Cl	O-acyl
CH ₃	H	ОН	О	8-Methylhypoxanthine	Cl	O-acyl
CH ₃	Н	ОН	О	5-Fluoro-6-Methyluracil	Cl	O-acyl
CH ₃	Н	ОН	О	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CH ₃	Н	ОН	0	2-Fluoro-8-methyladenine	Cl	O-acyl
CH ₃	Н	ОН	О	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CH ₃	Н	ОН	О	2-Amino-8-methyladenine	Cl	O-acyl
CH ₃	Н	ОН	O	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CH ₃	Н	ОН	О	2-N-acetyl-8-methylguanine	·Cl	O-acyl
CH ₃	Н	ОН	0	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CH ₃	H	OH	О	6-N-acetyl-8-methyladenine	Cl	O-acyl
CH ₃	Н	ОН	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CH ₃	Н	OH	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CH ₃	Н	ОН	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CH ₃	Н	OH	О	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CH ₃	Н	OH	0	2-N-acetylamino-8-	Cl	O-acyl
				methylhypoxanthine		
CH ₃	Н	OH	О	6-Methylthymine	I	O-amino acid
CH ₃	Н	ОН	О	6-Methyluracil	I	O-amino acid
CH ₃	Н	ОН	О	8-Methylguanine	I	O-amino acid
CH ₃	Н	ОН	О	6-Methylcytosine	I	O-amino acid
CH ₃	Н	ОН	О	8-Methyladenine	I	O-amino acid
CH ₃	Н	ОН	О	8-Methylhypoxanthine	I	O-amino acid
CH ₃	Н	ОН	О	5-Fluoro-6-Methyluracil	I	O-amino acid
CH ₃	Н	ОН	Ò	5-Fluoro-6-Methylcytosine	I	O-amino acid
CH ₃	Н	ОН	О	2-Fluoro-8-methyladenine	I	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CH ₃	Н	ОН	О	2-Fluoro-8-methylhypoxanthine	I	O-amino acid
CH ₃	H	ОН	О	2-Amino-8-methyladenine	I	O-amino acid
CH ₃	Н	ОН	О	2-Amino-8-methylhypoxanthine	I	O-amino acid
CH ₃	H	OH	О	2-N-acetyl-8-methylguanine	I	O-amino acid
CH ₃	H	ОН	О	4-N-acetyl-8-methylcytosine	I	O-amino acid
CH ₃	H	OH	О	6-N-acetyl-8-methyladenine	I	O-amino acid
CH ₃	Н	OН	О	4-N-acetyl-5-fluoro-8-methylcytosine	I	O-amino acid
CH ₃	H	OH	О	6-N-acetyl-2-fluoro-8-methyladenine	I	O-amino acid
CH ₃	H	ОН	О	6-N-acetyl-2-amino-8-methyladenine	l I	O-amino acid
CH ₃	Н	OH	О	2-N-acetylamino-8-methyladenine	I	O-amino acid
CH ₃	Н	ОН	О	2-N-acetylamino-8-	I	O-amino acid
				methylhypoxanthine		
CH ₃	Н	OH	О	6-Methylthymine	1	O-acyl
CH ₃	Н	ОН	О	6-Methyluracil	I	O-acyl
CH ₃	Н	OH	О	8-Methylguanine	I	O-acyl
CH ₃	Н	ОН	О	6-Methylcytosine	I:	O-acyl
CH ₃	Н	ОН	Q	8-Methyladenine	I	O-acyl
CH ₃	H ·	ОН	О	8-Methylhypoxanthine	I	O-acyl
CH ₃	Н	ОН	О	5-Fluoro-6-Methyluracil	I	O-acyl
CH ₃	Н	ОН	О	5-Fluoro-6-Methylcytosine	I	O-acyl
CH ₃	Н	ОН	О	2-Fluoro-8-methyladenine	I	O-acyl
CH ₃	H	ОН	О	2-Fluoro-8-methylhypoxanthine	I	O-acyl
CH ₃	H .	ОН	О	2-Amino-8-methyladenine	I	O-acyl
CH ₃	Н	ОН	O	2-Amino-8-methylhypoxanthine	I	O-acyl
CH ₃	Н	ОН	О	2-N-acetyl-8-methylguanine	I	O-acyl
CH ₃	Н	ОН	О	4-N-acetyl-8-methylcytosine	I	O-acyl
CH ₃	H	ОН	0	6-N-acetyl-8-methyladenine	I	O-acyl
CH ₃	Н	OH	О	4-N-acetyl-5-fluoro-8-methylcytosine	1	O-acyl
CH ₃	Н	ОН	О	6-N-acetyl-2-fluoro-8-methyladenine	I	O-acyl
CH ₃	Н	OH	О	6-N-acetyl-2-amino-8-methyladenine	I	O-acyl
CH ₃	Н	ОН	О	2-N-acetylamino-8-methyladenine	I	O-acyl
CH ₃	H	OH	О	2-N-acetylamino-8-	I	O-acyl
				methylhypoxanthine		
CH ₃	Н	OH	О	6-Methylthymine	Н	O-amino acid
CH ₃	Н	OH-	О	6-Methyluracil	Н	O-amino acid
CH ₃	Н	OH	0	8-Methylguanine	H	O-amino acid
CH ₃	Н	OH	О	6-Methylcytosine	Н	O-amino acid
CH ₃	H	OH	О	8-Methyladenine	H	O-amino acid
CH ₃	Н	OH	О	8-Methylhypoxanthine	Н	O-amino acid
CH ₃	Н	ОН	0	5-Fluoro-6-Methyluracil	Н	O-amino acid
CH ₃	Н	ОН	0	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CH ₃	Н	ОН	0	2-Fluoro-8-methyladenine	Н	O-amino acid
CH ₃	Н	ОН	О	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CH ₃	Н	OH	O	2-Amino-8-methyladenine	H ·	O-amino acid
CH ₃	Н	OH	0	2-Amino-8-methylhypoxanthine	H	O-amino acid
CH ₃	Н	OH	O,	2-N-acetyl-8-methylguanine	Н	O-amino acid
CH ₃	Н	ОН	О	4-N-acetyl-8-methylcytosine	Н	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	\mathbf{R}^{10}	R ⁹
CH ₃	Н	OH	O	6-N-acetyl-8-methyladenine	Н	O-amino acid
CH ₃	Н	OH	0	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CH ₃	Н	OH	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CH ₃	Н	ОН	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CH ₃	Н	ОН	0	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CH ₃	Н	ОН	O	2-N-acetylamino-8-	Н	O-amino acid
				methylhypoxanthine		
CH ₃	Н	OH	О	6-Methylthymine	Н	O-acyl
CH ₃	Н	ОН	0	6-Methyluracil	Н	O-acyl
CH ₃	Н	ОН	О	8-Methylguanine	Н	O-acyl
CH ₃	Н	ОН	O	6-Methylcytosine	Н	O-acyl
CH ₃	Н	OH	О	8-Methyladenine	Н	O-acyl
CH ₃	Н	OH	О	8-Methylhypoxanthine	Н	O-acyl
CH ₃	Н	OH	O	5-Fluoro-6-Methyluracil	Н	O-acyl
CH ₃	H	OH	O	5-Fluoro-6-Methylcytosine	Н	O-acyl
CH ₃	Н	ОН	O	2-Fluoro-8-methyladenine	Н	O-acyl
CH ₃	Н	ОН	0	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CH ₃	Н	OH	O	2-Amino-8-methyladenine	H	O-acyl
CH ₃	Н	OH	О	2-Amino-8-methylhypoxanthine	Н	O-acyl
CH ₃	Н	ОН	O	2-N-acetyl-8-methylguanine	Н	O-acyl
CH ₃	Н	OH	О	4-N-acetyl-8-methylcytosine	H	O-acyl
CH ₃	H	OH	O	6-N-acetyl-8-methyladenine	Н	O-acyl
CH ₃	Н	ОН	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CH ₃	Н	ОН	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CH ₃	Н	ОН	O	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CH ₃	Н	ОН	O	2-N-acetylamino-8-methyladenine	Н	O-acyl
CH ₃	Н	OH	O	2-N-acetylamino-8-	H	O-acyl
			<u> </u>	methylhypoxanthine		

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	O	6-Methylthymine	F	H
CF ₃	O-acyl	F	О	6-Methyluracil	F	H
CF ₃	O-acyl	F	О	8-Methylguanine	F	H
CF ₃	O-acyl	F	O	6-Methylcytosine	F	Н
CF ₃	O-acyl	F	О	8-Methyladenine	F	Н
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	F	Н
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	Н
CF ₃	O-acyl	F	Ō	5-Fluoro-6-Methylcytosine	F	Н
CF ₃	O-acyl	F	Ō	2-Fluoro-8-methyladenine	F	Н
CF ₃	O-acyl	F	0	2-Fluoro-8-methylhypoxanthine	F	Н
CF ₃	O-acyl	F	0	2-Amino-8-methyladenine	F	Н
CF ₃	O-acyl	F	Ō	2-Amino-8-methylhypoxanthine	F	Н
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	F	Н
CF ₃	O-acyl	F	o	4-N-acetyl-8-methylcytosine	F	Н
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	F	Н
CF ₃	O-acyl	F	Ö	4-N-acetyl-5-fluoro-8-methylcytosine	F	Н
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	F	Н
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	Н
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	F	Н
CF ₃	O-acyl	F	Ō	2-N-acetylamino-8-	F	Н
		-		methylhypoxanthine		
CF ₃	O-acyl	F	О	6-Methylthymine	F	O-amino acid
CF ₃	O-acyl	F	O	6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	F	О	8-Methylguanine	F	O-amino acid
CF ₃	O-acyl	F	О	6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	F	O	8-Methyladenine	F	O-amino acid
CF ₃	O-acyl	F	О	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	О	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	F	О	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-acyl	F	О	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	F	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	О	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	F	О	2-N-acetylamino-8-	F	O-amino acid
			<u> </u>	methylhypoxanthine		
CF ₃	O-acyl	F	О	6-Methylthymine	F	O-acyl
CF ₃	O-acyl	F	О	6-Methyluracil	F	O-acyl
CF ₃	O-acyl	F	О	8-Methylguanine	F	O-acyl
CF ₃	O-acyl	F	О	6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	F	O	8-Methyladenine	F	O-acyl
	·	!		<u></u>		·

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	F	О	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	F	0	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-acyl	F	О	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	F	Ó	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	F	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	0	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	F	О	2-N-acetylamino-8-	F	O-acyl
	-			methylhypoxanthine		•
CF ₃	O-acyl	F	О	6-Methylthymine	F	OH
CF ₃	O-acyl	F	O	6-Methyluracil	F	ОН
CF ₃	O-acyl	F	О	8-Methylguanine	F	OH
CF ₃	O-acyl	F	О	6-Methylcytosine	F	OH
CF ₃	O-acyl	F	О	8-Methyladenine	F	OH
CF ₃	O-acyl	F	О	8-Methylhypoxanthine	F	OH
CF ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	F	ОН
CF ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	F	ОН
CF ₃	O-acyl	F	О	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	F	О	2-Amino-8-methyladenine	F	ОН
CF ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	F	ОН
CF ₃	O-acyl	F	O_	4-N-acetyl-8-methylcytosine	F	ОН
CF ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	F	ОН
CF ₃	O-acyl	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	ОН
CF ₃	O-acyl	F	О	6-N-acetyl-2-fluoro-8-methyladenine	F	ОН
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-acyl	F	0	2-N-acetylamino-8-methyladenine	F	ОН
CF ₃	O-acyl	F	О	2-N-acetylamino-8-	F	ОН
		_	ļ	methylhypoxanthine	1	
CF ₃	O-acyl	F	0	6-Methylthymine	Br	H
CF ₃	O-acyl	F	0	6-Methyluracil	Br	Н
CF ₃	O-acyl	F	0	8-Methylguanine	Br	H
CF ₃	O-acyl	F	0	6-Methylcytosine	Br	Н
CF ₃	O-acyl	F	0	8-Methyladenine	Br	H
CF ₃	O-acyl	F	0	8-Methylhypoxanthine	Br	H
CF ₃	O-acyl	F	0	5-Fluoro-6-Methyluracil	Br	Н
CF ₃	O-acyl	F	0	5-Fluoro-6-Methylcytosine	Br	Н
CF ₃	O-acyl	F	0	2-Fluoro-8-methyladenine	Br	Н
CF ₃	O-acyl_	F	O	2-Fluoro-8-methylhypoxanthine	Br	H

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	0	2-Amino-8-methyladenine	Br	Н
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	Н
CF ₃	O-acyl	F	0	2-N-acetyl-8-methylguanine	Br	Н
CF ₃	O-acyl	F	0	4-N-acetyl-8-methylcytosine	Br	Н
CF ₃	O-acyl	F	0	6-N-acetyl-8-methyladenine	Br	Н
CF ₃	O-acyl	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	Н
CF ₃	O-acyl	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	Н
CF ₃	O-acyl	F	О	6-N-acetyl-2-amino-8-methyladenine	Br	Н
CF ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	Br	Н
CF ₃	O-acyl	F	O	2-N-acetylamino-8-	Br	Н
		1		methylhypoxanthine		
CF ₃	O-acyl	F	0	6-Methylthymine	Br	O-amino acid
CF ₃	O-acyl	F	О	6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	F	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-acyl	F	О	6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	F	О	8-Methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	F	О	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-acyl	F	О	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	0	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	F	О	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine		,
CF ₃	O-acyl	F	О	6-Methylthymine	Br	O-acyl
CF ₃	O-acyl	F	О	6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	F	О	8-Methylguanine	Br	O-acyl
CF ₃	O-acyl	F	О	6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	F	О	8-Methyladenine	Br	O-acyl
CF ₃	O-acyl	F	О	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	F	О	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	О	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	F	0	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	0	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-acyl	F	0	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Br	O-acyl

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	0	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	F	0	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine		
CF ₃	O-acyl	F	0	6-Methylthymine	Br	OH
CF ₃	O-acyl	F	О	6-Methyluracil	Br	OH
CF ₃	O-acyl	F	О	8-Methylguanine	Br	ОН
CF ₃	O-acyl	F	O	6-Methylcytosine	Br	ОН
CF ₃	O-acyl	F	0	8-Methyladenine	Br	OH
CF ₃	O-acyl	F	0	8-Methylhypoxanthine	Br	ОН
CF ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-acyl	F	О	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-acyl	F	0	2-Fluoro-8-methyladenine	Br	ОН
CF ₃	O-acyl	F	0	2-Fluoro-8-methylhypoxanthine	Br	ОН
CF ₃	O-acyl	F	0	2-Amino-8-methyladenine	Br	ОН
CF ₃	O-acyl	F	O	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	Br	ОН
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Br	ОН
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	ОН
CF ₃	O-acyl	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-acyl	F	О	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	Br	ОН
CF ₃	O-acyl	F	О	2-N-acetylamino-8-	Br	ОН
				methylhypoxanthine	1	
CF ₃	O-acyl	F	О	6-Methylthymine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	F	О	8-Methylguanine	Cl	O-acyl
CF ₃	O-acyl	F	О	6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	F	О	8-Methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	О	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	CI	O-acyl
CF ₃	O-acyl	F	О	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	О	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	0	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-acyl	F	О	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	О	6-N-acetyl-2-amino-8-methyladenine	CI	O-acyl
CF ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	F	O	2-N-acetylamino-8-	Cl	O-acyl
LCF3	U-acyi	<u> </u>	Ų	Z-IN-acetylamino-o-	L	U-acyi

R^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
				methylhypoxanthine		
CF ₃	O-acyl	F	0	6-Methylthymine	CI	ОН
CF ₃	O-acyl	F	O	6-Methyluracil	Cl	OH
CF ₃	O-acyl	F	0	8-Methylguanine	Cl	ОН
CF ₃	O-acyl	F	О	6-Methylcytosine	Cl	ОН
CF ₃	O-acyl	F	О	8-Methyladenine	CI	ОН
CF ₃	O-acyl	F	0	8-Methylhypoxanthine	CI	OH
CF ₃	O-acyl	F	0	5-Fluoro-6-Methyluracil	Cl	ОН
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Cl	ОН
CF ₃	O-acyl	F	0	2-Fluoro-8-methyladenine	Cl	ОН
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	CI	OH
CF ₃	O-acyl	F	O	2-Amino-8-methyladenine	CI	ОН
CF ₃	O-acyl	F	0	2-Amino-8-methylhypoxanthine	Cl	ОН
CF ₃	O-acyl	F	O	2-N-acetyl-8-methylguanine	Cl	ОН
CF ₃	O-acyl	F	0	4-N-acetyl-8-methylcytosine	Cl	ОН
CF ₃	O-acyl	F	O	6-N-acetyl-8-methyladenine	CI	ОН
CF ₃	O-acyl	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	ОН
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	Cl	ОН
CF ₃	O-acyl	F	O	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-acyl	F	O	2-N-acetylamino-8-	Cl	OH
				methylhypoxanthine		
CF ₃	O-acyl	F	О	6-Methylthymine	Cl	Н
CF ₃	O-acyl	F	0	6-Methyluracil	CI	Н
CF ₃	O-acyl	F	О	8-Methylguanine	Cl	Н
CF ₃	O-acyl	F	О	6-Methylcytosine	Cl	Н
CF ₃	O-acyl	F	О	8-Methyladenine	Cl	Н
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Cl	Н
CF ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	Cl	Н
CF ₃	O-acyl	F	О	5-Fluoro-6-Methylcytosine	Cl	Н
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Cl	Н
CF ₃	O-acyl	F	О	2-Fluoro-8-methylhypoxanthine	Cl	Н
CF ₃	O-acyl	F	О	2-Amino-8-methyladenine	Cl	Н
CF ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	Cl	Н
CF ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	Cl	Н
CF ₃	O-acyl	F	О	6-Methylthymine	Cl	O-amino acid
CF ₃	O-acyl	F	0	6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	F	0	8-Methylguanine	Cl	O-amino acid
CF ₃	O-acyl	F	О	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	F	О	8-Methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	О	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	F	Ο.	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	О	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	F	0	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	Cl	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	CI	O-amino acid
CF ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	0	6-N-acetyl-2-amino-8-methyladenine	CI	O-amino acid
CF ₃	O-acyl	F	0	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	F	O	2-N-acetylamino-8-	Cl	O-amino acid
				methylhypoxanthine	ļ	
CF ₃	O-acyl	F	0	6-Methylthymine	Н	Н
CF ₃	O-acyl	F	О	6-Methyluracil	Н	Н
CF ₃	O-acyl	F	О	8-Methylguanine	Н	Н
CF ₃	O-acyl	F	О	6-Methylcytosine	H	Н
CF ₃	O-acyl	F	0	8-Methyladenine	Н	Н
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	Н	Н
CF ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	Н	H
CF ₃	O-acyl	F	O	5-Fluoro-6-Methylcytosine	Н	Н
CF ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	Н	Н
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Н	Н
CF ₃	O-acyl	F	О	2-Amino-8-methyladenine	Н	Н
CF ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	Н	Н
CF ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	Н	Н
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Н	Н
CF ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Н	Н
CF ₃	O-acyl	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	H	Н
CF ₃	O-acyl	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	Н
CF ₃	O-acyl	F	O	6-N-acetyl-2-amino-8-methyladenine	H	Н
CF ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	H	Н
CF ₃	O-acyl	F	O	2-N-acetylamino-8-	Н	Н
				methylhypoxanthine	İ	
CF ₃	O-acyl	F	О	6-Methylthymine	H	O-amino acid
CF ₃	O-acyl	F	O_	6-Methyluracil	Н	O-amino acid
CF ₃	O-acyl	F	О	8-Methylguanine	Н	O-amino acid
CF ₃	O-acyl	F	О	6-Methylcytosine	Н	O-amino acid
CF ₃	O-acyl	F	О	8-Methyladenine	Н	O-amino acid
CF ₃	O-acyl	F	О	8-Methylhypoxanthine	Н	O-amino acid
CF ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	Н	O-amino acid
CF ₃	O-acyl	F	О	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CF ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	F	О	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CF ₃	O-acyl	F	О	2-Amino-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CF ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	Н	O-amino acid
CF ₃	O-acyl	F	O	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CF ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CF ₃	O-acyl	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	F	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	F	О	2-N-acetylamino-8-	Н	O-amino acid
				methylhypoxanthine		
CF ₃	O-acyl	F	Q	6-Methylthymine	H	O-acyl
CF ₃	O-acyl	F_	О	6-Methyluracil	Н	O-acyl
CF ₃	O-acyl	F	О	8-Methylguanine	Н	O-acyl
CF ₃	O-acyl	F	О	6-Methylcytosine	Н	O-acyl
CF ₃	O-acyl	F	О	8-Methyladenine	Н	O-acyl
CF ₃	O-acyl	F	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	F	O	5-Fluoro-6-Methyluracil	Н	O-acyl
CF ₃	O-acyl	F	О	5-Fluoro-6-Methylcytosine	Н	O-acyl
CF ₃	O-acyl	F	O	2-Fluoro-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	F	О	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CF ₃	O-acyl	F	О	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	Н	O-acyl
CF ₃	O-acyl	F	О	4-N-acetyl-8-methylcytosine	Н	O-acyl
CF ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CF ₃	O-acyl	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	F	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	F	О	2-N-acetylamino-8-	Н	O-acyl
				methylhypoxanthine		
CF ₃	O-acyl	F	О	6-Methylthymine	H	OH
CF ₃	O-acyl	F	О	6-Methyluracil	Н	ОН
CF ₃	O-acyl	F	O	8-Methylguanine	H	OH
CF ₃	O-acyl	F	O	6-Methylcytosine	Н	OH
CF ₃	O-acyl	F	О	8-Methyladenine	Н	ОН
CF ₃	O-acyl	F	О	8-Methylhypoxanthine	Н	OH
CF ₃	O-acyl	F	О	5-Fluoro-6-Methyluracil	H	ОН
CF ₃	O-acyl	F	О	5-Fluoro-6-Methylcytosine	H	ОН
CF ₃	O-acyl	F	О	2-Fluoro-8-methyladenine	H	OH
CF ₃	O-acyl	F	O	2-Fluoro-8-methylhypoxanthine	Н	OH
CF ₃	O-acyl	F	О	2-Amino-8-methyladenine	Н	ОН
CF ₃	O-acyl	F	О	2-Amino-8-methylhypoxanthine	H	ОН
CF ₃	O-acyl	F	О	2-N-acetyl-8-methylguanine	Н	ОН
CF ₃	O-acyl	F	О	4-N-acetyl-8-methylcytosine	Н	ОН
CF ₃	O-acyl	F	О	6-N-acetyl-8-methyladenine	Н	ОН
CF ₃	O-acyl	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	OH .
CF ₃	O-acyl	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	ОН
CF ₃	O-acyl	F	О	6-N-acetyl-2-amino-8-methyladenine	Н	ОН
CF ₃	O-acyl	F	О	2-N-acetylamino-8-methyladenine	Н	ОН
CF ₃	O-acyl	F	О	2-N-acetylamino-8-	Н	ОН
		<u></u>		methylhypoxanthine		
CF ₃	O-acyl	F	О	6-Methylthymine	OH	H

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CF3O-acylBrO6-MethyluracilFFCF3O-acylBrO8-MethylguanineFFCF3O-acylBrO6-MethylcytosineFF	Н
CF3O-acylBrO8-MethylguanineFFCF3O-acylBrO6-MethylcytosineFF	
CF ₃ O-acyl Br O 6-Methylcytosine F F	* *
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methylhypoxanthine	
h	O-amino acid
	O-amino acid
CF ₃ O-acyl Br O 8-Methylhypoxanthine F O	_ /

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	0	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Br	О	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Br	О	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-acyl	Br	О	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Br	О	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	О	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Br	О	2-N-acetylamino-8-	F	O-amino acid
1				methylhypoxanthine		
CF ₃	O-acyl	Br	O	6-Methylthymine	F	O-acyl
CF ₃	O-acyl	Br	O	6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Br	O	8-Methylguanine	F	O-acyl
CF ₃	O-acyl	Br	О	6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Br	O	8-Methyladenine	F	O-acyl
CF ₃	O-acyl	Br	О	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Br	О	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Br	О	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Br	О	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-acyl	Br	О	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Br	О	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	О	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Br	О	2-N-acetylamino-8-	F	O-acyl
				methylhypoxanthine	ļ	
CF ₃	O-acyl	Br	О	6-Methylthymine	F	OH
CF ₃	O-acyl	Br	О	6-Methyluracil	F	ОН
CF ₃	O-acyl	Br	O	8-Methylguanine	F	ОН
CF ₃	O-acyl	Br	О	6-Methylcytosine	F	ОН
CF ₃	O-acyl	Br	О	8-Methyladenine	F	ОН
CF ₃	O-acyl	Br	О	8-Methylhypoxanthine	F	ОН
CF ₃	O-acyl	Br	О	5-Fluoro-6-Methyluracil	F	ОН
CF ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	F	ОН
CF ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	F	ОН
CF ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	F	ОН
CF ₃	O-acyl	Br	О	2-Amino-8-methyladenine	F	ОН

CF3 O-acyl Br O 2-N-acetyl-8-methylgytosine F OH CF3 O-acyl Br O 2-N-acetyl-8-methylgytosine F OH CF3 O-acyl Br O 4-N-acetyl-3-fluoro-8-methylgytosine F OH CF3 O-acyl Br O 4-N-acetyl-3-fluoro-8-methyladenine F OH CF3 O-acyl Br O 6-N-acetyl-3-methyladenine F OH CF3 O-acyl Br O 6-N-acetyl-2-amino-8-methyladenine F OH CF3 O-acyl Br O 6-Methylthymine Br H H H CF3 O-acyl Br O <t< th=""><th>R⁶</th><th>\mathbb{R}^7</th><th>R⁸</th><th>X</th><th>Base</th><th>R¹⁰</th><th>R⁹</th></t<>	R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
GF ₃ O-acyl Br O 2-N-acetyl-8-methyleytosine F OH CF ₃ O-acyl Br O 4-N-acetyl-8-methyleytosine F OH CF ₃ O-acyl Br O 4-N-acetyl-2-fluoro-8-methyleytosine F OH CF ₃ O-acyl Br O 6-N-acetyl-2-fluoro-8-methyladenine F OH CF ₃ O-acyl Br O 6-N-acetyl-2-amino-8-methyladenine F OH CF ₃ O-acyl Br O 2-N-acetylamino-8-methyladenine F OH CF ₃ O-acyl Br O 2-N-acetylamino-8-methyladenine F OH CF ₃ O-acyl Br O 6-Methyltymine Br H H CF ₃ O-acyl Br O 6-Methyltymine Br H H CF ₃ O-acyl Br O 6-Methyltytosine Br H H CF ₃ O-acyl Br O	CF ₃	O-acyl	Br	О	2-Amino-8-methylhypoxanthine	F	OH
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GF₃ O-acyl Br O 6-N-acetyl-8-methyladenine F OH CF₃ O-acyl Br O 4-N-acetyl-5-fluoro-8-methyladenine F OH CF₃ O-acyl Br O 6-N-acetyl-2-amino-8-methyladenine F OH CF₃ O-acyl Br O 2-N-acetylamino-8-methyladenine F OH CF₃ O-acyl Br O 2-N-acetylamino-8-methyladenine F OH CF₃ O-acyl Br O 6-Methyltymine Br H H CF₃ O-acyl Br O 6-Methyltymine Br H H CF₃ O-acyl Br O 6-Methyltytosine Br H H H CF₃ O-acyl Br O 8-Methyladenine Br H H H H H H H H H H H H C G O-acyl Br O <t< td=""><td>CF₃</td><td></td><td>Br</td><td>0</td><td></td><td>F</td><td>OH</td></t<>	CF ₃		Br	0		F	OH
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			Br	О		F	OH
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		<u> </u>	Br	O		F	ОН
CF3 O-acyl Br O 6-N-acetyl-2-amino-8-methyladenine F OH CF3 O-acyl Br O 2-N-acetylamino-8-methyladenine F OH CF3 O-acyl Br O 2-N-acetylamino-8-methyladenine F OH CF3 O-acyl Br O 6-Methylhymaine Br H CF3 O-acyl Br O 6-Methylynacil Br H CF3 O-acyl Br O 6-Methylynamine Br H CF3 O-acyl Br O 8-Methylynoxanthine Br H CF3 O-acyl Br O 8-Methylynoxanthine Br H CF3 O-acyl Br O 5-Fluoro-8-methyladenine Br H CF3 O-acyl Br O 2-Fluoro-8-methyladenine Br H CF3 O-acyl Br O 2-Fluoro-8-methyladenine Br H CF3			Br	O		F	OH
CF3 O-acyl Br O 2-N-acetylamino-8-methyladenine F OH CF3 O-acyl Br O 2-N-acetylamino-8-methyladenine F OH CF3 O-acyl Br O 6-Methylypoxanthine Br H CF3 O-acyl Br O 6-Methylytosine Br H CF3 O-acyl Br O 8-Methyladenine Br H CF3 O-acyl Br O 8-Methyladenine Br H CF3 O-acyl Br O 8-Methyladenine Br H CF3 O-acyl Br O 8-Fluoro-6-Methylucroil Br H CF3 O-acyl Br O 2-Fluoro-8-methyladenine Br H CF3 O-acyl Br O 2-Fluoro-8-methyladenine Br H CF3 O-acyl Br O 2-Fluoro-8-methyladenine Br H CF3 O-acy			Br	0		F	OH
CF3 O-acyl Br O 2-N-acetylamino-8-methylhypoxanthine F OH CF3 O-acyl Br O 6-Methylthymine Br H CF3 O-acyl Br O 6-Methyltyracil Br H CF3 O-acyl Br O 8-Methyladenine Br H CF3 O-acyl Br O 8-Methylhypoxanthine Br H CF3 O-acyl Br O 8-Methylhypoxanthine Br H CF3 O-acyl Br O 8-Fluoro-6-Methylcytosine Br H CF3 O-acyl Br O 2-Fluoro-8-methyladenine Br H CF3 O-acyl Br O 2-Fluoro-8-methyladenine Br H CF3 O-acyl Br O 2-Fluoro-8-methyladenine Br H CF3 O-acyl Br O 2-Amino-8-methyladenine Br H CF3			Br	O		F	ОН
CF3 O-acyl Br O 6-Methylthymine Br H CF3 O-acyl Br O 6-Methylthymine Br H CF3 O-acyl Br O 6-Methyluracil Br H CF3 O-acyl Br O 6-Methylcytosine Br H CF3 O-acyl Br O 8-Methylgypoxanthine Br H CF3 O-acyl Br O 8-Methyldypoxanthine Br H CF3 O-acyl Br O 8-Methyldypoxanthine Br H CF3 O-acyl Br O 5-Fluoro-6-Methyluracil Br H CF3 O-acyl Br O 2-Fluoro-8-methyladenine Br H CF3 O-acyl Br O 2-Fluoro-8-methyladenine Br H CF3 O-acyl Br O 2-Amino-8-methyladenine Br H CF3 O-acyl Br O 2-N-acetyl-8-methyladenine Br H CF3 O-acyl Br O				О	<u> </u>	F	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	CF ₃	O-acyl	Br	0		Br	O-amino acid
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			Br	О		Br	O-amino acid
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			Br	0	8-Methylguanine	Br	O-amino acid
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			Br	О		Br	O-amino acid
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		 		+-	<u> </u>	Br	O-amino acid
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			Br	О		Br	O-amino acid
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						Br	O-amino acid
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			Br	0		Br	O-amino acid
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CF3O-acylBrO2-Amino-8-methylhypoxanthineBrO-amino acidCF3O-acylBrO2-N-acetyl-8-methylguanineBrO-amino acidCF3O-acylBrO4-N-acetyl-8-methylcytosineBrO-amino acidCF3O-acylBrO6-N-acetyl-8-methyladenineBrO-amino acid				O		Br	O-amino acid
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CF ₃ O-acyl Br O 4-N-acetyl-8-methylcytosine Br O-amino acid CF ₃ O-acyl Br O 6-N-acetyl-8-methyladenine Br O-amino acid				+		Br	·————
CF ₃ O-acyl Br O 6-N-acetyl-8-methyladenine Br O-amino acid		 		-		Br	
		+				Br	
1 Cr3 O-acyr Di O 4-in-acctyr-5-methylcytoshie Di O-animo acid	CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	0	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Br	0	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine		
CF ₃	O-acyl	Br	О	6-Methylthymine	Br	O-acyl
CF ₃	O-acyl	Br	0	6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	Br	0	8-Methylguanine	Br	O-acyl
CF ₃	O-acyl	Br	О	6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	Br	О	8-Methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	0	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Br	О	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Вr	О	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Br	О	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Br	О	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-acyl	Br	0	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Br	О	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine		
CF ₃	O-acyl	Br	0_	6-Methylthymine	Br	ОН
CF ₃	O-acyl	Br	O	6-Methyluracil	Br	ОН
CF ₃	O-acyl	Br	0	8-Methylguanine	Br	ОН
CF ₃	O-acyl	Br	О	6-Methylcytosine	Br	ОН
CF ₃	O-acyl	Br	O	8-Methyladenine	Br	ОН
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Br	ОН
CF ₃	O-acyl	Br	0_	5-Fluoro-6-Methyluracil	Br	ОН
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	Br	ОН
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Br	ОН
CF ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	Br	ОН
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Br	ОН
CF ₃	O-acyl	Br	О	2-Amino-8-methylhypoxanthine	Br	ОН
CF ₃	O-acyl	Br	О	2-N-acetyl-8-methylguanine	Br	ОН
CF ₃	O-acyl	Br	О	4-N-acetyl-8-methylcytosine	Br	OH
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Br	ОН
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	ОН
CF ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Br_	ОН
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Br	ОН
CF ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	Br	ОН
CF ₃	O-acyl	Вг	О	2-N-acetylamino-8-	Br	ОН
L.,		<u>L </u>	<u> </u>	methylhypoxanthine	L	

\mathbb{R}^6	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	О	6-Methylthymine	Cl	Н
CF ₃	O-acyl	Br	O	6-Methyluracil	Cl	Н
CF ₃	O-acyl	Br	0	8-Methylguanine	Cl	Н
CF ₃	O-acyl	Br	О	6-Methylcytosine	Cl	Н
CF ₃	O-acyl	Br	О	8-Methyladenine	Cl	Н
CF ₃	O-acyl	Br	Ò	8-Methylhypoxanthine	CI	Н
CF ₃	O-acyl	Br	0	5-Fluoro-6-Methyluracil	Cl	Н
CF ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	Cl	Н
CF ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	Cl	Н
CF ₃	O-acyl	Br	О	2-Fluoro-8-methylhypoxanthine	CI	Н
CF ₃	O-acyl	Br	0	2-Amino-8-methyladenine	Cl	Н
CF ₃	O-acyl	Br	0	2-Amino-8-methylhypoxanthine	Cl	Н
CF ₃	O-acyl	Br	О	2-N-acetyl-8-methylguanine	Cl	Н
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	Cl	Н
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	Cl	Н
CF ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	Н
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Cl	Н
CF ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	Cl	Н
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-	Cl	H
			İ	methylhypoxanthine		
CF ₃	O-acyl	Br	O	6-Methylthymine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	Br	0	8-Methylguanine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Br	0	8-Methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	0	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Br	0	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	Br	О	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Br	О	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	0	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Br	О	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-acyl	Br	О	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Br	О	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Br	0	2-N-acetylamino-8-	Cl	O-amino acid
				methylhypoxanthine		
CF ₃	O-acyl	Br	О	6-Methylthymine	Cl	O-acyl
CF ₃	O-acyl	Br	О	6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	Br	О	8-Methylguanine	Cl	O-acyl
CF ₃	O-acyl	Br	О	6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Br	O	8-Methyladenine	Cl	O-acyl

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CF3O-acylBrO6-N-acetyl-2-amino-8-methyladenineClCF3O-acylBrO2-N-acetylamino-8-methyladenineClCF3O-acylBrO2-N-acetylamino-8-methyladenineClmethylhypoxanthinemethylhypoxanthine	O-acyl
CF ₃ O-acyl Br O 2-N-acetylamino-8-methyladenine Cl CF ₃ O-acyl Br O 2-N-acetylamino-8- methylhypoxanthine Cl	O-acyl
CF ₃ O-acyl Br O 2-N-acetylamino-8-methylhypoxanthine Cl	O-acyl
methylhypoxanthine	O-acyl
	ОН
CF ₃ O-acyl Br O 6-Methyluracil CI	OH
CF ₃ O-acyl Br O 8-Methylguanine Cl	ОН
CF ₃ O-acyl Br O 6-Methylcytosine Cl	ОН
CF ₃ O-acyl Br O 8-Methyladenine Cl	OH
CF ₃ O-acyl Br O 8-Methylhypoxanthine Cl	ОН
CF ₃ O-acyl Br O 5-Fluoro-6-Methyluracil Cl	ОН
CF ₃ O-acyl Br O 5-Fluoro-6-Methylcytosine Cl	ОН
CF ₃ O-acyl Br O 2-Fluoro-8-methyladenine Cl	ОН
CF ₃ O-acyl Br O 2-Fluoro-8-methylhypoxanthine Cl	OH
CF ₃ O-acyl Br O 2-Amino-8-methyladenine Cl	ОН
CF ₃ O-acyl Br O 2-Amino-8-methylhypoxanthine Cl	ОН
CF ₃ O-acyl Br O 2-N-acetyl-8-methylguanine Cl	OH
CF ₃ O-acyl Br O 4-N-acetyl-8-methylcytosine Cl	ОН
CF ₃ O-acyl Br O 6-N-acetyl-8-methyladenine Cl	OH
CF ₃ O-acyl Br O 4-N-acetyl-5-fluoro-8-methylcytosine Cl	ОН
CF ₃ O-acyl Br O 6-N-acetyl-2-fluoro-8-methyladenine Cl	ОН
CF ₃ O-acyl Br O 6-N-acetyl-2-amino-8-methyladenine Cl	ОН
CF ₃ O-acyl Br O 2-N-acetylamino-8-methyladenine Cl	ОН
CF ₃ O-acyl Br O 2-N-acetylamino-8- Cl	OH
methylhypoxanthine	
CF ₃ O-acyl Br O 6-Methylthymine H	Н
CF ₃ O-acyl Br O 6-Methyluracil H	H
CF ₃ O-acyl Br O 8-Methylguanine H	Н
CF ₃ O-acyl Br O 6-Methylcytosine H	Н
CF ₃ O-acyl Br O 8-Methyladenine H	Н
CF ₃ O-acyl Br O 8-Methylhypoxanthine H	Н
CF ₃ O-acyl Br O 5-Fluoro-6-Methyluracil H	Н
CF ₃ O-acyl Br O 5-Fluoro-6-Methylcytosine H	Н
CF ₃ O-acyl Br O 2-Fluoro-8-methyladenine H	Н
CF ₃ O-acyl Br O 2-Fluoro-8-methylhypoxanthine H	Н

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	О	2-Amino-8-methyladenine	Н	Н
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	Н	H
CF ₃	O-acyl	Br	О	2-N-acetyl-8-methylguanine	Н	H
CF ₃	O-acyl	Br	0	4-N-acetyl-8-methylcytosine	Н	Н
CF ₃	O-acyl	Br	0	6-N-acetyl-8-methyladenine	Н	Н
CF ₃	O-acyl	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	Н
CF ₃	O-acyl	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	Н
CF ₃	O-acyl	Br	0	6-N-acetyl-2-amino-8-methyladenine	Н	Н
CF ₃	O-acyl	Br	О	2-N-acetylamino-8-methyladenine	Н	Н
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-	Н	Н
ļ		}		methylhypoxanthine		
CF ₃	O-acyl	Br	O	6-Methylthymine	Н	O-amino acid
CF ₃	O-acyl	Br	0	6-Methyluracil	Н	O-amino acid
CF ₃	O-acyl	Br	0	8-Methylguanine	Н	O-amino acid
CF ₃	O-acyl	Br	O	6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	Br	o	8-Methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	Н	O-amino acid
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	Br	0	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CF ₃	O-acyl	Br	0	2-Fluoro-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	Br	0	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	Н	O-amino acid
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	Br	0	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Br	Ō	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-	H	O-amino acid
	1		1	methylhypoxanthine	-	
CF ₃	O-acyl	Br	O	6-Methylthymine	Н	O-acyl
CF ₃	O-acyl	Br	O	6-Methyluracil	Н	O-acyl
CF ₃	O-acyl	Br	0	8-Methylguanine	Н	O-acyl
CF ₃	O-acyl	Br	0	6-Methylcytosine	Н	O-acyl
CF ₃	O-acyl	Br	o	8-Methyladenine	Н	O-acyl
CF ₃	O-acyl	Br	0	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Br	0	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	Br	o	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	ō	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Br	o	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	Ö	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Br	ō	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-acyl	Br	ō	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	Br	0	6-N-acetyl-8-methyladenine	H	O-acyl
C1 3	J-acy i	الا	L <u> </u>	0-14- acceyi-0-memyiademile	111	1 O-acyi

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CF ₃	O-acyl	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Br	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	Br	0	2-N-acetylamino-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-	Н	O-acyl
}	•		}	methylhypoxanthine	}	
CF ₃	O-acyl	Br	0	6-Methylthymine	Н	ОН
CF ₃	O-acyl	Br	0	6-Methyluracil	Н	ОН
CF ₃	O-acyl	Br	О	8-Methylguanine	Н	ОН
CF ₃	O-acyl	Br	О	6-Methylcytosine	H	ОН
CF ₃	O-acyl	Br	0	8-Methyladenine	H	ОН
CF ₃	O-acyl	Br	0	8-Methylhypoxanthine	Н	ОН
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	Н	OH
CF ₃	O-acyl	Br	0	5-Fluoro-6-Methylcytosine	Н	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	Н	OH
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Br	o	2-N-acetyl-8-methylguanine	H	ОН
CF ₃	O-acyl	Br	0	4-N-acetyl-8-methylcytosine	H	ОН
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	H	ОН
CF ₃	O-acyl	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	H	ОН
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	H	ОН
CF ₃	O-acyl	Br	0	6-N-acetyl-2-amino-8-methyladenine	Н	OH
CF ₃	O-acyl	Br	0	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-	Н	ОН
		}	}	methylhypoxanthine	1	
CF ₃	O-acyl	Br	0	6-Methylthymine	OH	Н
CF ₃	O-acyl	Br	0	6-Methyluracil	OH	Н
CF ₃	O-acyl	Br	0	8-Methylguanine	OH	Н
CF ₃	O-acyl	Br	0	6-Methylcytosine	OH	Н
CF ₃	O-acyl	Br	0	8-Methyladenine	OH	Н
CF ₃	O-acyl	Br	O	8-Methylhypoxanthine	ОН	Н _
CF ₃	O-acyl	Br	O	5-Fluoro-6-Methyluracil	OH	H.
CF ₃	O-acyl	Br	0	5-Fluoro-6-Methylcytosine	OH	Н
CF ₃	O-acyl	Br	O	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	2-Fluoro-8-methylhypoxanthine	OH	Н
CF ₃	O-acyl	Br	0	2-Amino-8-methyladenine	OH	Н
CF ₃	O-acyl	Br	O	2-Amino-8-methylhypoxanthine	ОН	Н
CF ₃	O-acyl	Br	O	2-N-acetyl-8-methylguanine	OH	Н
CF ₃	O-acyl	Br	O	4-N-acetyl-8-methylcytosine	OH	H
CF ₃	O-acyl	Br	O	6-N-acetyl-8-methyladenine	OH	Н
CF ₃	O-acyl	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	ОН	Н
CF ₃	O-acyl	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	ОН	Н
CF ₃	O-acyl	Br	O	6-N-acetyl-2-amino-8-methyladenine	ОН	Н
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-acyl	Br	O	2-N-acetylamino-8-	ОН	Н

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
				methylhypoxanthine		
CF ₃	O-acyl	Cl	0	6-Methylthymine	F	Н
CF ₃	O-acyl	Cl	0	6-Methyluracil	F	Н
CF ₃	O-acyl	Cl	0	8-Methylguanine	F	Н
CF ₃	O-acyl	Cl	o	6-Methylcytosine	F	Н
CF ₃	O-acyl	Cl	O	8-Methyladenine	F	Н
CF ₃	O-acyl	Cl	0	8-Methylhypoxanthine	F	H
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	F	Н
CF ₃	O-acyl	CI	O	5-Fluoro-6-Methylcytosine	F	Н
CF ₃	O-acyl	CI	O	2-Fluoro-8-methyladenine	F	Н
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	H
CF ₃	O-acyl	Cl	0	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-acyl	CI	ō	2-N-acetyl-8-methylguanine	F	Н
CF ₃	O-acyl	CI	Ö	4-N-acetyl-8-methylcytosine	F	H
CF ₃	O-acyl	Cl	ŏ	6-N-acetyl-8-methyladenine	$\frac{1}{F}$	H
CF ₃	O-acyl	Cl	o	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-acyl	Cl	o	6-N-acetyl-2-fluoro-8-methyladenine	F	H
CF ₃	O-acyl	Cl	ō	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-acyl	CI	ō	2-N-acetylamino-8-methyladenine	F	Н
CF ₃	O-acyl	Cl	ō	2-N-acetylamino-8-	$\frac{1}{F}$	H
				methylhypoxanthine	1	**
CF ₃	O-acyl	Cl	O	6-Methylthymine	$+_{\rm F}$	O-amino acid
CF ₃	O-acyl	Cl	0	6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylguanine	F	O-amino acid
CF ₃	O-acyl	Cl	Ō	6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	CI	O	8-Methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Cl	0	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	CI	О	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-acyl	CI	О	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	0	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	Ō	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-	F	O-amino acid
_	•		1	methylhypoxanthine		
CF ₃	O-acyl	CI	0.	6-Methylthymine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Cl	o	8-Methylguanine	F	O-acyl
CF ₃	O-acyl	CI	O	6-Methylcytosine	F	O-acyl

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	O	8-Methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Cl	0	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Cl	0	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	О	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	CI	О	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	0	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	О	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-	F	O-acyl
-				methylhypoxanthine	İ	
CF ₃	O-acyl	Cl	O	6-Methylthymine	F	OH
CF ₃	O-acyl	Cl	O	6-Methyluracil	F	ОН
CF ₃	O-acyl	Cl	O	8-Methylguanine	F	ОН
CF ₃	O-acyl	Cl	O	6-Methylcytosine	F	ОН
CF ₃	O-acyl	Cl	0	8-Methyladenine	F	ОН
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	F	OH
CF ₃	O-acyl	Cl	0	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-acyl	Cl	0	5-Fluoro-6-Methylcytosine	F	ОН
CF ₃	O-acyl	CI	O	2-Fluoro-8-methyladenine	F	ОН
CF ₃	O-acyl	Cl	О	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Cl	О	2-Amino-8-methyladenine	F	ОН
CF ₃	O-acyl	Cl	0	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Cl	0	2-N-acetyl-8-methylguanine	F	ÓН
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	F	ОН
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-acyl	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	Cl	О	6-N-acetyl-2-amino-8-methyladenine	F	ОН
CF ₃	O-acyl	Cl	0	2-N-acetylamino-8-methyladenine	F	ОН
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-	F	ОН
1	}			methylhypoxanthine	1	
CF ₃	O-acyl	Cl	0	6-Methylthymine	Br	Н
CF ₃	O-acyl	Cl	О	6-Methyluracil	Br	Н
CF ₃	O-acyl	CI	О	8-Methylguanine	Br	Н
CF ₃	O-acyl	Cl	О	6-Methylcytosine	Br	Н
CF ₃	O-acyl	CI	O	8-Methyladenine	Br	Н
CF ₃	O-acyl	CI	0	8-Methylhypoxanthine	Br	Н
CF ₃		Cl	O	5-Fluoro-6-Methyluracil	Br	Н
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	Н
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	Н

R ⁶	R^{7}	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	О	2-Fluoro-8-methylhypoxanthine	Br	Н
CF ₃	O-acyl	Cl	0	2-Amino-8-methyladenine	Br	Н
CF ₃	O-acyl	Cl	О	2-Amino-8-methylhypoxanthine	Br	Н
CF ₃	O-acyl	Cl	О	2-N-acetyl-8-methylguanine	Br	Н
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	Н
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	Н
CF ₃	O-acyl	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-acyl	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	Н
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	Н
CF ₃	O-acyl	Cl	О	2-N-acetylamino-8-methyladenine	Br	Н
CF ₃	O-acyl	Cl	0	2-N-acetylamino-8-	Br	Н
· ·			1	methylhypoxanthine	Ĭ	1
CF ₃	O-acyl	Cl	0	6-Methylthymine	Br	O-amino acid
CF ₃	O-acyl	Cl	0	6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylguanine	Вг	O-amino acid
CF ₃	O-acyl	Cl	О	6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Cl	o	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Cl	o	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	CI	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Cl	0	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-acyl	CI	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	0	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Cl	0	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine	1	!
CF ₃	O-acyl	Cl	O	6-Methylthymine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	CI	О	8-Methylguanine	Br	O-acyl
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	Cl	0	8-Methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	CI	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	CI	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	0	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Cl	o	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	Cl	0	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Br	O-acyl

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	0	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	Cl	Ō	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	0	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	Ō	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-	Br	O-acyl
1				methylhypoxanthine		
CF ₃	O-acyl	Cl	O	6-Methylthymine	Br	ОН
CF ₃	O-acyl	Cl	O	6-Methyluracil	Br	ОН
CF ₃	O-acyl	Cl	0	8-Methylguanine	Br	OH
CF ₃	O-acyl	Cl	О	6-Methylcytosine	Br	ОН
CF ₃	O-acyl	Cl	0	8-Methyladenine	Br	OH
CF ₃	O-acyl	Cl	О	8-Methylhypoxanthine	Br	OH
CF ₃	O-acyl	Cl	О	5-Fluoro-6-Methyluracil	Br	ОН
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Br	ОН
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Br	ОН
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Br	ОН
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Br	ОН
CF ₃	O-acyl	Cl	0	2-Amino-8-methylhypoxanthine	Br	ОН
CF ₃	O-acyl	Cĺ	O	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-acyl	Cl	О	4-N-acetyl-8-methylcytosine	Br	ОН
CF ₃	O-acyl	Cl	О	6-N-acetyl-8-methyladenine	Br	ОН
CF ₃	O-acyl	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	ОН
CF ₃	O-acyl	Cl	Ō	6-N-acetyl-2-fluoro-8-methyladenine	Br	ОН
CF ₃	O-acyl	CI	O	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-acyl	Cl	0	2-N-acetylamino-8-methyladenine	Br	ОН
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-	Br	ОН
				methylhypoxanthine	<u> </u>	
CF ₃	O-acyl	Cl	0	6-Methylthymine	Cl	Н
CF ₃	O-acyl	Cl	Q	6-Methyluracil	C1_	Н
CF ₃	O-acyl	Cl	0	8-Methylguanine	Cl	Н
CF ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	H
CF ₃	O-acyl	CĪ	O	8-Methyladenine	Cl_	Н
CF ₃	O-acyl	Cl	0	8-Methylhypoxanthine	Cl	Н
CF ₃	O-acyl	Cl	0	5-Fluoro-6-Methyluracil	Cl	Н
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	Cl	Н
CF ₃	O-acyl	Cl	0	2-Fluoro-8-methyladenine	Cl	Н
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	Н
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	Н
CF ₃	O-acyl_	Cl	0	2-Amino-8-methylhypoxanthine	Cl	Н
CF ₃	O-acyl	CI	O	2-N-acetyl-8-methylguanine	CI	H
CF ₃	O-acyl	Cl	О	4-N-acetyl-8-methylcytosine	Cl	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Cl	Н
CF ₃	O-acyl	CI	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	Н
CF ₃	O-acyl	Cl	0	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Cl	H

\mathbb{R}^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	0	2-N-acetylamino-8-	Cl	Н
		[methylhypoxanthine		[
CF ₃	O-acyl	Cl	0	6-Methylthymine	Cl	O-amino acid
CF ₃	O-acyl	Cl	0	6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methylguanine	Cl	O-amino acid
CF ₃	O-acyl	CI	0	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	Ō	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	CI	О	5-Fluoro-6-Methyluracil	CI	O-amino acid
CF ₃	O-acyl	Cl	O	5-Fluoro-6-Methylcytosine	CI	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Cl	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	ō	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Cl	ō	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-acyl	CI	o	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Cl	o	6-N-acetyl-8-methyladenine	CI	O-amino acid
CF ₃	O-acyl	Cl	o	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	Cl	o	6-N-acetyl-2-fluoro-8-methyladenine	CI	O-amino acid
CF ₃	O-acyl	Cl	ō	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Cl	ō	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Ci	O	2-N-acetylamino-8-	Cl	O-amino acid
		•	-	methylhypoxanthine		
CF ₃	O-acyl	Cl	O	6-Methylthymine	Cl	O-acyl
CF ₃	O-acyl	Cl	0	6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	Ci	О	8-Methylguanine	Cl	O-acyl
CF ₃	O-acyl	Cl	0	6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	CI	O	8-Methyladenine	CI	O-acyl
CF ₃	O-acyl	Cl	0	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Cl	0	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	CI	O	5-Fluoro-6-Methylcytosine	CI	O-acyl
CF ₃	O-acyl	Cl	0	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	0	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Cl	0	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	О	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Cl	0	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	CI	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	CI	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	CI	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	0	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-	Cl	O-acyl
				methylhypoxanthine	1	<u>_</u>
CF ₃	O-acyl	Cl	0	6-Methylthymine	Cl	ОН
CF ₃	O-acyl	Cl	O	6-Methyluracil	Cl	ОН
CF ₃	O-acyl	CI	O	8-Methylguanine	Cl	OH

CF3 O-acyl CI O 6-Methyleytosine CI OH CF3 O-acyl CI O 8-Methyladenine CI OH CF3 O-acyl CI O 8-Methylhypoxanthine CI OH CF3 O-acyl CI O 5-Fluoro-6-Methylcytosine CI OH CF3 O-acyl CI O 5-Fluoro-8-methylcytosine CI OH CF3 O-acyl CI O 2-Fluoro-8-methyladenine CI OH CF3 O-acyl CI O 2-Mino-8-methyladenine CI OH CF3 O-acyl CI O 2-Amino-8-methyladenine CI OH CF3 O-acyl CI O 4-N-acetyl-8-methylgosine CI OH CF3 O-acyl CI O 4-N-acetyl-8-methylgosine CI OH CF3 O-acyl CI O 4-N-acetyl-5-methylgosine CI OH CF3 </th <th>R⁶</th> <th>R⁷</th> <th>R⁸</th> <th>X</th> <th>Base</th> <th>R¹⁰</th> <th>R⁹</th>	R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
GF ₃ O-acyl Cl O 8-Methylabdenine Cl OH CF ₃ O-acyl Cl O 8-Hethylhypoxanthine Cl OH GF ₃ O-acyl Cl O 5-Fluoro-6-Methylcytosine Cl OH GF ₃ O-acyl Cl O 2-Fluoro-8-methyladenine Cl OH GF ₃ O-acyl Cl O 2-Fluoro-8-methyladenine Cl OH GF ₃ O-acyl Cl O 2-Fluoro-8-methyladenine Cl OH GF ₃ O-acyl Cl O 2-Macetyl-8-methylgypoxanthine Cl OH GF ₃ O-acyl Cl O 2-N-acetyl-8-methylgytosine Cl OH GF ₃ O-acyl Cl O 4-N-acetyl-8-methyladenine Cl OH GF ₃ O-acyl Cl O 4-N-acetyl-12-amino-8-methyladenine Cl OH GF ₃ O-acyl Cl O 6-N-acetyl-2-amino-8-methyladenine Cl	CF ₃	O-acyl	Cl	O	6-Methylcytosine	Cl	OH
CF3 O-acyl CI O 8-Methylhypoxanthine CI OH CF3 O-acyl CI O 5-Fluoro-6-Methyluracil CI OH CF3 O-acyl CI O 5-Fluoro-8-methylocytosine CI OH CF3 O-acyl CI O 2-Fluoro-8-methylocytosine CI OH CF3 O-acyl CI O 2-Fluoro-8-methylocytosine CI OH CF3 O-acyl CI O 2-Amino-8-methylocytosine CI OH CF3 O-acyl CI O 2-Amino-8-methylocytosine CI OH CF3 O-acyl CI O 4-N-acetyl-8-methyladenine CI OH CF3 O-acyl CI O 4-N-acetyl-8-methyladenine CI OH CF3 O-acyl CI O 6-N-acetyl-8-methyladenine CI OH CF3 O-acyl CI O 6-N-acetyl-8-methyladenine CI OH <td></td> <td></td> <td>Cl</td> <td>0</td> <td></td> <td>Cl</td> <td>OH</td>			Cl	0		Cl	OH
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GF ₃ O-acyl Cl O 5-Fluoro-6-Methylycytosine Cl OH CF ₃ O-acyl Cl O 2-Fluoro-8-methyladenine Cl OH CF ₃ O-acyl Cl O 2-Fluoro-8-methylhypoxanthine Cl OH CF ₃ O-acyl Cl O 2-Amino-8-methyladenine Cl OH CF ₃ O-acyl Cl O 2-N-acetyl-8-methyladenine Cl OH CF ₃ O-acyl Cl O 4-N-acetyl-3-fluoro-8-methylcytosine Cl OH CF ₃ O-acyl Cl O 6-N-acetyl-8-methyladenine Cl OH CF ₃ O-acyl Cl O 6-N-acetyl-8-methyladenine Cl OH CF ₃ O-acyl Cl O 6-N-acetyl-2-fluoro-8-methyladenine Cl OH CF ₃ O-acyl Cl O 6-N-acetyl-2-fluoro-8-methyladenine Cl OH CF ₃ O-acyl Cl O 6-Methylthymine <td></td> <td></td> <td>Cl</td> <td>O</td> <td></td> <td>Cl</td> <td></td>			Cl	O		Cl	
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CF3 O-acyl CI O 2-Amino-8-methyladenine CI OH CF3 O-acyl CI O 2-Amino-8-methylapyoxanthine CI OH CF3 O-acyl CI O 2-N-acetyl-8-methyleytosine CI OH CF3 O-acyl CI O 4-N-acetyl-8-methyleytosine CI OH CF3 O-acyl CI O 4-N-acetyl-8-methyladenine CI OH CF3 O-acyl CI O 4-N-acetyl-8-methyladenine CI OH CF3 O-acyl CI O 4-N-acetyl-2-fluoro-8-methyladenine CI OH CF3 O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine CI OH CF3 O-acyl CI O 6-N-acetyl-2-fluoro-8-methyladenine CI OH CF3 O-acyl CI O 6-Methylthylmine H H H CF3 O-acyl CI O 6-Methylthylmine <th< td=""><td></td><td></td><td></td><td></td><td></td><td>+</td><td>f</td></th<>						+	f
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CF3 O-acyl CI O 2-N-acetylamino-8-methylhypoxanthine CI OH CF3 O-acyl CI O 6-Methylthymine H H CF3 O-acyl CI O 6-Methylthyracil H H CF3 O-acyl CI O 8-Methylguanine H H CF3 O-acyl CI O 8-Methylguanine H H CF3 O-acyl CI O 8-Methylguanine H H CF3 O-acyl CI O 8-Methylguanine H H CF3 O-acyl CI O 5-Fluoro-6-Methylgracil H H CF3 O-acyl CI O 5-Fluoro-6-Methylgracil H H CF3 O-acyl CI O 2-Fluoro-8-methylgracil H H CF3 O-acyl CI O 2-Fluoro-8-methyladenine H H CF3 O-acyl CI <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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CF3O-acylClO6-MethylcytosineHO-amino acidCF3O-acylClO8-MethyladenineHO-amino acidCF3O-acylClO8-MethylhypoxanthineHO-amino acidCF3O-acylClO5-Fluoro-6-MethyluracilHO-amino acid		O-acyl	Cl	O		Н	O-amino acid
CF3O-acylClO8-MethyladenineHO-amino acidCF3O-acylClO8-MethylhypoxanthineHO-amino acidCF3O-acylClO5-Fluoro-6-MethyluracilHO-amino acid				O			
CF ₃ O-acyl Cl O 8-Methylhypoxanthine H O-amino acid CF ₃ O-acyl Cl O 5-Fluoro-6-Methyluracil H O-amino acid			Cl .	O		Н	
CF ₃ O-acyl Cl O 5-Fluoro-6-Methyluracil H O-amino acid			Cl	О		Н	
<u> </u>			CI	O			
Cr ₃ O-acyl Cl O 5-Fluoro-o-iviethylcytosine H O-amino acid	CF ₃	O-acyl	Cl	О	5-Fluoro-6-Methylcytosine	Н	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	О	2-Fluoro-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	Cl	0	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CF ₃	O-acyl	Cl	0	2-Amino-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	Ćl	O	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CF ₃	O-acyl	Cl	Ō	2-N-acetyl-8-methylguanine	Н	O-amino acid
CF ₃	O-acyl	Cl	0	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	CI	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-	Н	O-amino acid
,],]		methylhypoxanthine		
CF ₃	O-acyl	CI	О	6-Methylthymine	Н	O-acyl
CF ₃	O-acyl	Cl	O	6-Methyluracil	Н	O-acyl
CF ₃	O-acyl	Cl	ō	8-Methylguanine	H	O-acyl
CF ₃	O-acyl	Cl	ŏ	6-Methylcytosine	Н	O-acyl
CF ₃	O-acyl	Cl	ō	8-Methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	O	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Cl	Ö	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-acyl	Cl	o	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-acyl	CI	0	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	ō	2-Fluoro-8-methylhypoxanthine	H	O-acyl
CF ₃	O-acyl	Cl	o	2-Amino-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	CI	o	2-Amino-8-methylhypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	Ō	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-acyl	Cl	o	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-acyl	Cl	ō	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-acyl	CI	o	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CF ₃	O-acyl	Cl	ō	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	o	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	0	2-N-acetylamino-8-methyladenine	H	O-acyl
CF ₃	O-acyl	Cl	o	2-N-acetylamino-8-	H	O-acyl
				methylhypoxanthine	111	O-doy1
CF ₃	O-acyl	Cl	0	6-Methylthymine	Н	ОН
CF ₃	O-acyl	Cl	ō	6-Methyluracil	H	OH
CF ₃	O-acyl	CI	o	8-Methylguanine	H	OH
CF ₃	O-acyl	CI	o	6-Methylcytosine	H	OH
CF ₃	O-acyl	CI	0	8-Methyladenine	H	OH
CF ₃	O-acyl	Cl	0	8-Methylhypoxanthine	H	OH
CF ₃	O-acyl	Cl	0	5-Fluoro-6-Methyluracil	H	OH
CF_3	O-acyl	Cl	0	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-acyl	Cl	0	2-Fluoro-8-methyladenine	H	OH
CF ₃		CI	0	2-Fluoro-8-methylhypoxanthine	Н	OH
	O-acyl				H	
CF ₃	O-acyl	Cl	0	2-Amino-8-methyladenine		OH
CF ₃	O-acyl	Cl	0	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Cl	O	2-N-acetyl-8-methylguanine	H	OH

\mathbb{R}^6	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Cl	O	4-N-acetyl-8-methylcytosine	Н	ОН
CF ₃	O-acyl	Cl	O	6-N-acetyl-8-methyladenine	Н	ОН
CF ₃	O-acyl	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Н	ОН
CF ₃	O-acyl	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	ОН
CF ₃	O-acyl	Cl	O	6-N-acetyl-2-amino-8-methyladenine	Н	ОН
CF ₃	O-acyl	Cl	O	2-N-acetylamino-8-methyladenine	Н	ОН
CF ₃	O-acyl	Cl	0	2-N-acetylamino-8-	H	ОН
		}]	methylhypoxanthine]
CF ₃	O-acyl	Cl	O	6-Methylthymine	OH	Н
CF ₃	O-acyl	CI	Ō	6-Methyluracil	ОН	Н
CF ₃	O-acyl	Cl	O	8-Methylguanine	ОН	Н
CF ₃	O-acyl	Ci	O	6-Methylcytosine	ОН	Н
CF ₃	O-acyl	Cl	ō	8-Methyladenine	OH	H
CF ₃	O-acyl	Cl	0	8-Methylhypoxanthine	OH	H
CF ₃	O-acyl	CI	o	5-Fluoro-6-Methyluracil	OH	H
CF ₃	O-acyl	Ci	o	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-acyl	Cl	0	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	o	2-Fluoro-8-methylhypoxanthine	OH	Н
CF ₃	O-acyl	Cl	0	2-Amino-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	0	2-Amino-8-methylhypoxanthine	OH	Н
CF ₃	O-acyl	Cl	0	2-N-acetyl-8-methylguanine	OH	H
		CI	0	4-N-acetyl-8-methylcytosine	OH	Н
CF ₃	O-acyl	Cl	t		OH	Н
CF ₃	O-acyl	Cl	0	6-N-acetyl-8-methyladenine	 -	Н
CF ₃	O-acyl		0	4-N-acetyl-5-fluoro-8-methylcytosine	OH	
CF ₃	O-acyl	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	OH	Н
CF ₃	O-acyl	Cl	0	6-N-acetyl-2-amino-8-methyladenine	OH	Н
CF ₃	O-acyl	Cl	0	2-N-acetylamino-8-methyladenine	OH	H
CF ₃	O-acyl	Cl	О	2-N-acetylamino-8-	OH	H
C.E.		-		methylhypoxanthine	 	TT
CF ₃	O-acyl	H	0	6-Methylthymine	F	H
CF ₃	O-acyl	H	0	6-Methyluracil	F	H
CF ₃	O-acyl	H	0	8-Methylguanine	F	H
CF ₃	O-acyl	Н		6-Methylcytosine	F	Н
CF ₃	O-acyl	H	0	8-Methyladenine	F	Н
CF ₃	O-acyl	Н	O	8-Methylhypoxanthine	F	Н
CF ₃	O-acyl	H	O	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-acyl	Н	0	2-Fluoro-8-methyladenine	F	H
CF ₃	O-acyl	H	0	2-Fluoro-8-methylhypoxanthine	F	Н
CF ₃	O-acyl	Н	О	2-Amino-8-methyladenine	F	Н
CF ₃	O-acyl	Н	О	2-Amino-8-methylhypoxanthine	F	Н
CF ₃	O-acyl	Н	О	2-N-acetyl-8-methylguanine	F_	Н
CF ₃	O-acyl	Н	О	4-N-acetyl-8-methylcytosine	F	Н
CF ₃	O-acyl	Н	0	6-N-acetyl-8-methyladenine	F	Н
CF ₃	O-acyl	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	Н
CF ₃	O-acyl	H	0	6-N-acetyl-2-fluoro-8-methyladenine	F	Н
CF ₃	O-acyl	Н	0	6-N-acetyl-2-amino-8-methyladenine	F	Н

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Н	0	2-N-acetylamino-8-methyladenine	F	Н
CF ₃	O-acyl	Н	0	2-N-acetylamino-8-	F	Н
L			1	methylhypoxanthine		
CF ₃	O-acyl	Н	0	6-Methylthymine	F	O-amino acid
CF ₃	O-acyl	Н	0	6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Н	0	8-Methylguanine	F	O-amino acid
CF ₃	O-acyl	Н	О	6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	Н	0	8-Methyladenine	F	O-amino acid
CF ₃	O-acyl	Н	0	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Н	O	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-acyl	Н	0	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-acyl	Н	0	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Н	0	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Н	O	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-acyl	Н	О	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-acyl	Н	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Н	O	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-acyl	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Н	O	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Н	O	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-acyl	Н	0	2-N-acetylamino-8-	F	O-amino acid
				methylhypoxanthine		
CF ₃	O-acyl	Н	O	6-Methylthymine	F	O-acyl .
CF ₃	O-acyl	H	О	6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Н	О	8-Methylguanine	F	O-acyl
CF ₃	O-acyl	Н	О	6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Н	О	8-Methyladenine	F	O-acyl
CF ₃	O-acyl	Н	Ō	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Н	O	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-acyl	Н	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-acyl	Н	О	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Н	О	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Н	O	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	H	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-acyl	Н	0	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-acyl	Н	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Н	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-acyl	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Н	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Н	О	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-acyl	Н	О	2-N-acetylamino-8-	F	O-acyl
				methylhypoxanthine		
CF ₃	O-acyl	Н	O	6-Methylthymine	F	ОН
CF ₃	O-acyl	Н	0	6-Methyluracil	F	OH

R ⁶	R ⁷	\mathbb{R}^8	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Н	O	8-Methylguanine	F	ОН
CF ₃	O-acyl	Н	О	6-Methylcytosine	F	ОН
CF ₃	O-acyl	Н	O	8-Methyladenine	F	OH
CF ₃	O-acyl	Н	O	8-Methylhypoxanthine	F	ОН
CF ₃	O-acyl	Н	O	5-Fluoro-6-Methyluracil	F	ОН
CF ₃	O-acyl	Н	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-acyl	Н	Ō	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	Н	O	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-acyl	Н	O	2-Amino-8-methyladenine	F	ОН
CF ₃	O-acyl	Н	O	2-Amino-8-methylhypoxanthine	F	ОН
CF ₃	O-acyl	Н	O	2-N-acetyl-8-methylguanine	F	ОН
CF ₃	O-acyl	Н	o	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-acyl	Н	Ō	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-acyl	Н	Ō	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-acyl	Н	Ō	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	F	ОН
CF ₃	O-acyl	Н	o	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-acyl	H	ō	2-N-acetylamino-8-	F	OH
	0 25,			methylhypoxanthine	1	
CF ₃	O-acyl	H	О	6-Methylthymine	Br	Н
CF ₃	O-acyl	Н	O	6-Methyluracil	Br	Н
CF ₃	O-acyl	Н	0	8-Methylguanine	Br	Н
CF ₃	O-acyl	Н	O	6-Methylcytosine	Br	Н
CF ₃	O-acyl	Н	O	8-Methyladenine	Br	Н
CF ₃	O-acyl	Н	O	8-Methylhypoxanthine	Br	H
CF ₃	O-acyl	Н	O	5-Fluoro-6-Methyluracil	Br	Н
CF ₃	O-acyl	Н	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-acyl	Н	O	2-Fluoro-8-methyladenine	Br	Н
CF ₃	O-acyl	Н	O	2-Fluoro-8-methylhypoxanthine	Br	Н
CF ₃	O-acyl	Н	O	2-Amino-8-methyladenine	Br	Н
CF ₃	O-acyl	Н	O	2-Amino-8-methylhypoxanthine	Br	Н
CF ₃	O-acyl	Н	0	2-N-acetyl-8-methylguanine	Br	Н
CF ₃	O-acyl	Н	0	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-acyl	Н	O	6-N-acetyl-8-methyladenine	Br	Н
CF ₃	O-acyl	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	Н
CF ₃	O-acyl	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	Н
CF ₃	O-acyl	Н	O	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-acyl	H	0	2-N-acetylamino-8-methyladenine	Br	Н
CF ₃	O-acyl	Н	0	2-N-acetylamino-8-	Br	H
	_	_	<u> </u>	methylhypoxanthine		<u> </u>
CF ₃	O-acyl	Н	0	6-Methylthymine	Br	O-amino acid
CF ₃	O-acyl	Н	0	6-Methyluracil	Br	O-amino acid
CF ₃	O-acyl	Н	О	8-Methylguanine	Br	O-amino acid
CF ₃	O-acyl	Н	О	6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Н	О	8-Methyladenine	Br	O-amino acid
CF ₃	O-acyl	H.	О	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Н	0	5-Fluoro-6-Methyluracil	Br	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Н	О	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Н	О	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Н	О	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Н	0	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Н	О	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-acyl	Н	О	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-acyl	Н	О	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Н	О	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-acyl	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	Н	o	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	Ō	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine		
CF ₃	O-acyl	H	0	6-Methylthymine	Br	O-acyl
CF ₃	O-acyl	H	o	6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	H	o	8-Methylguanine	Br	O-acyl
CF ₃	O-acyl	H	0	6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	H	O	8-Methyladenine	Br	O-acyl
CF ₃	O-acyl	H	0	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	H	0	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-acyl	H	0	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-acyl	H	0	2-Fluoro-8-methyladenine	Br	O-acyl
		H.	0	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	H	0	2-Amino-8-methyladenine	Br	O-acyl
	O-acyl	H	0	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-acyl	H	0	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-acyl	H	+		Br	
CF ₃	O-acyl	$\frac{\Pi}{H}$	0	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl			6-N-acetyl-8-methyladenine		O-acyl
CF ₃	O-acyl	H	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-acyl	H	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H	0	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	H		2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-acyl	Н	О	2-N-acetylamino-8-	Br	O-acyl
CF.		+++	 	methylhypoxanthine	- D.:	OH
CF ₃	O-acyl	H	0	6-Methylthymine	Br	OH
CF ₃	O-acyl	H	0	6-Methyluracil	Br	ОН
CF ₃	O-acyl	H	0	8-Methylguanine	Br	ОН
CF ₃	O-acyl	H	O	6-Methylcytosine	Br	ОН
CF ₃	O-acyl	H	0	8-Methyladenine	Br	ОН
CF ₃	O-acyl	Н	0	8-Methylhypoxanthine	Br	ОН
CF ₃	O-acyl	Н	0	5-Fluoro-6-Methyluracil	Br	ОН
CF ₃	O-acyl_	H	O	5-Fluoro-6-Methylcytosine	Br	ОН
CF ₃	O-acyl	Н	O	2-Fluoro-8-methyladenine	Br	ОН
CF ₃	O-acyl	Н	О	2-Fluoro-8-methylhypoxanthine	Br	ОН
CF ₃	O-acyl	Н	О	2-Amino-8-methyladenine	Br	OH
CF ₃	O-acyl	H	0	2-Amino-8-methylhypoxanthine	Br	ОН

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Н	0	2-N-acetyl-8-methylguanine	Br	ОН
CF ₃	O-acyl	Н	0	4-N-acetyl-8-methylcytosine	Br	ОН
CF ₃	O-acyl	Н	0	6-N-acetyl-8-methyladenine	Br	ОН
CF ₃	O-acyl	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	ОН
CF ₃	O-acyl	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	ОН
CF ₃	O-acyl	Н	0	6-N-acetyl-2-amino-8-methyladenine	Br	ОН
CF ₃	O-acyl	Н	О	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-acyl	Н	О	2-N-acetylamino-8-	Br	ОН
				methylhypoxanthine		
CF ₃	O-acyl	Н	О	6-Methylthymine	Cl	Н
CF ₃	O-acyl	Н	O	6-Methyluracil	Cl	Н
CF ₃	O-acyl	Н	0	8-Methylguanine	Cl	Н
CF ₃	O-acyl	Н	O	6-Methylcytosine	Cl	H
CF ₃	O-acyl	H	O	8-Methyladenine	Cl	H
CF ₃	O-acyl	H	Ō	8-Methylhypoxanthine	Cl	Н
CF ₃	O-acyl	H	Ō	5-Fluoro-6-Methyluracil	Cl	Н
CF ₃	O-acyl	H	Ō	5-Fluoro-6-Methylcytosine	CI	H
CF ₃	O-acyl	H	o	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	H	o	2-Fluoro-8-methylhypoxanthine	Cl	Н
CF ₃	O-acyl	H	o	2-Amino-8-methyladenine	CI	H
CF ₃	O-acyl	H	o	2-Amino-8-methylhypoxanthine	Cl	Н
CF ₃	O-acyl	H	O	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-acyl	H	o	4-N-acetyl-8-methylcytosine	Cl	Н
CF ₃	O-acyl	H	o	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-acyl	H	$\frac{0}{0}$	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-acyl	H	o	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-acyl	H	o	6-N-acetyl-2-amino-8-methyladenine	CI	H
CF ₃	O-acyl	H	$\frac{0}{0}$	2-N-acetylamino-8-methyladenine	CI	Н
CF ₃	O-acyl	H	O.	2-N-acetylamino-8-	Cl	H
013	O-acyi	**		methylhypoxanthine		11
CF ₃	O-acyl	H	o	6-Methylthymine	Cl	O-amino acid
CF ₃	O-acyl	H	$\frac{0}{0}$	6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	H	$\frac{0}{0}$	8-Methylguanine	CI	O-amino acid
CF ₃	O-acyl	H	o	6-Methylcytosine	CI	O-amino acid
CF ₃	O-acyl	H	o	8-Methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	0	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	H	o	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-acyl	H	o	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	H	0	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	0	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	Н	0	2-Amino-8-methyladenine	Cl	O-amino acid
		H	0	· · · · · · · · · · · · · · · · · · ·	Cl	O-amino acid
CF ₃	O-acyl	H		2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-acyl	-	0	2-N-acetyl-8-methylguanine		
CF ₃	O-acyl	H	0	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	H	0	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	H	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-acyl	H	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl_	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Н	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Н	O	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-acyl	Н	0	2-N-acetylamino-8-	Cl	O-amino acid
_ 		l		methylhypoxanthine		. [
CF ₃	O-acyl	Н	О	6-Methylthymine	Cl	O-acyl
CF ₃	O-acyl	Н	O	6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	Н	О	8-Methylguanine	Cl	O-acyl
CF ₃	O-acyl	Н	O	6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Н	О	8-Methyladenine	Cl	O-acyl
CF ₃	O-acyl	Н	О	8-Methylhypoxanthine	CI	O-acyl
CF ₃	O-acyl	Н	О	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-acyl	Н	0	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-acyl	Н	О	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Н	0	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Н	О	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Н	О	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-acyl	Н	0	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-acyl	H	0	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl_	Н	О	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-acyl	H	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	О	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-acyl	H	0	2-N-acetylamino-8-	Cl	O-acyl
		ļ <u>.</u>		methylhypoxanthine		
CF ₃	O-acyl_	Н	0	6-Methylthymine	Cl	ОН
CF ₃	O-acyl	H	0	6-Methyluracil	Cl	OH
CF ₃	O-acyl	H	О	8-Methylguanine	Cl	OH
CF ₃	O-acyl	H	0	6-Methylcytosine	Cl	ОН
CF ₃	O-acyl	H	O	8-Methyladenine	Cl	ОН
CF ₃	O-acyl	Н	O	8-Methylhypoxanthine	Cl	OH
CF ₃	O-acyl	Н	O	5-Fluoro-6-Methyluracil	CI	ОН
CF ₃	O-acyl	Н		5-Fluoro-6-Methylcytosine	Cl	ОН
CF ₃	O-acyl	H	0	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-acyl	H	О	2-Fluoro-8-methylhypoxanthine	Cl	OH
CF ₃	O-acyl	H	O	2-Amino-8-methyladenine	Cl	ОН
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	Cl	ОН
CF ₃	O-acyl	H	0	2-N-acetyl-8-methylguanine	Cl	ОН
CF ₃	O-acyl	Н	О	4-N-acetyl-8-methylcytosine	Cl	ОН
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	Cl	ОН
CF ₃	O-acyl	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	ОН
CF ₃	O-acyl	H	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	ОН
CF ₃	O-acyl	H	0	6-N-acetyl-2-amino-8-methyladenine	Cl	ОН
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Ci	ОН
CF ₃	O-acyl	H	О	2-N-acetylamino-8-	Cl	ОН
ļ,		<u> </u>	ļ	methylhypoxanthine	 	
CF ₃	O-acyl	H	0	6-Methylthymine	H	H

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Н	0	6-Methyluracil	Н	Н
CF ₃	O-acyl	Н	О	8-Methylguanine	Н	Н
CF ₃	O-acyl	Н	0	6-Methylcytosine	Н	Н
CF ₃	O-acyl	Н	0	8-Methyladenine	Н	Н
CF ₃	O-acyl	Н	О	8-Methylhypoxanthine	Н	Н
CF ₃	O-acyl	Н	О	5-Fluoro-6-Methyluracil	Н	Н
CF ₃	O-acyl	Н	O	5-Fluoro-6-Methylcytosine	Н	Н
CF ₃	O-acyl	Н	О	2-Fluoro-8-methyladenine	Н	Η .
CF ₃	O-acyl	Н	O	2-Fluoro-8-methylhypoxanthine	Н	Н
CF ₃	O-acyl	Н	О	2-Amino-8-methyladenine	Н	Н
CF ₃	O-acyl	Н	O	2-Amino-8-methylhypoxanthine	Н	Н
CF ₃	O-acyl	Н	О	2-N-acetyl-8-methylguanine	Н	H
CF ₃	O-acyl	H	О	4-N-acetyl-8-methylcytosine	Н	H
CF ₃	O-acyl	Н	О	6-N-acetyl-8-methyladenine	Н	Н
CF ₃	O-acyl	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	Н	Н
CF ₃	O-acyl	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	Н	Н
CF ₃	O-acyl	Н	0	6-N-acetyl-2-amino-8-methyladenine	Н	Н
CF ₃	O-acyl	Н	O	2-N-acetylamino-8-methyladenine	Н	Н
CF ₃	O-acyl	H	Ó	2-N-acetylamino-8-	Н	Н
		l	l	methylhypoxanthine	_	
CF ₃	O-acyl	Н	0	6-Methylthymine	Н	O-amino acid
CF ₃	O-acyl	Н	О	6-Methyluracil	H	O-amino acid
CF ₃	O-acyl	H	О	8-Methylguanine	Н	O-amino acid
CF ₃	O-acyl	H	О	6-Methylcytosine	Н	O-amino acid
CF ₃	O-acyl	Н	О	8-Methyladenine	Н	O-amino acid
CF ₃	O-acyl	Н	О	8-Methylhypoxanthine	Н	O-amino acid
CF ₃	O-acyl	Н	О	5-Fluoro-6-Methyluracil	Н	O-amino acid
CF ₃	O-acyl	Н	О	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-acyl	Н	О	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Н	О	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CF ₃	O-acyl	Н	O	2-Amino-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	H	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-acyl	H	О	2-N-acetyl-8-methylguanine	Н	O-amino acid
CF ₃	O-acyl_	Н	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CF ₃	O-acyl	Н	O	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	6-N-acetyl-2-amino-8-methyladenine	H	O-amino acid
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CF ₃	O-acyl	Н	O	2-N-acetylamino-8-	H	O-amino acid
				methylhypoxanthine	ļ	
CF ₃	O-acyl	Н	О	6-Methylthymine	Н	O-acyl
CF ₃	O-acyl	H	О	6-Methyluracil	Н	O-acyl
CF ₃	O-acyl	Н	О	8-Methylguanine	Н	O-acyl
CF ₃	O-acyl	Н	О	6-Methylcytosine	Н	O-acyl
CF ₃	O-acyl	Н	О	8-Methyladenine	Н	O-acyl
CF ₃	O-acyl	H	О	8-Methylhypoxanthine	Н	O-acyl

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Н	О	5-Fluoro-6-Methyluracil	Н	O-acyl
CF ₃	O-acyl	H	0	5-Fluoro-6-Methylcytosine	Н	O-acyl
CF ₃	O-acyl	Н	O	2-Fluoro-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	Н	0	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CF ₃	O-acyl	Н	O	2-Amino-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	Н	O	2-Amino-8-methylhypoxanthine	Н	O-acyl
CF ₃	O-acyl	Н	0	2-N-acetyl-8-methylguanine	Н	O-acyl
CF ₃	O-acyl	Н	О	4-N-acetyl-8-methylcytosine	Н	O-acyl
CF ₃	O-acyl	Н	0	6-N-acetyl-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CF ₃	O-acyl	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	Н	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	Н	0	2-N-acetylamino-8-methyladenine	Н	O-acyl
CF ₃	O-acyl	Н	0	2-N-acetylamino-8-	Н	O-acyl
				methylhypoxanthine	1	
CF ₃	O-acyl	H	O	6-Methylthymine	H	ОН
CF ₃	O-acyl	Н	0	6-Methyluracil	Н	ОН
CF ₃	O-acyl	Н	0	8-Methylguanine	H	OH
CF ₃	O-acyl	Н	O	6-Methylcytosine	H	OH
CF ₃	O-acyl	Н	Ŏ	8-Methyladenine	Н	OH
CF ₃	O-acyl	H	Ō	8-Methylhypoxanthine	Н	ОН
CF ₃	O-acyl	H	Ō	5-Fluoro-6-Methyluracil	Н	ОН
CF ₃	O-acyl	H	ō	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-acyl	Н	O	2-Fluoro-8-methyladenine	H	ОН
CF ₃	O-acyl	H	O	2-Fluoro-8-methylhypoxanthine	H	OH
CF ₃	O-acyl	Н	O	2-Amino-8-methyladenine	H	ОН
CF ₃	O-acyl	Н	0	2-Amino-8-methylhypoxanthine	Н	ОН
CF ₃	O-acyl	Н	o	2-N-acetyl-8-methylguanine	Н	ОН
CF ₃	O-acyl	Н	O	4-N-acetyl-8-methylcytosine	Н	ОН
CF ₃	O-acyl	Н	0	6-N-acetyl-8-methyladenine	Н	ОН
CF ₃	O-acyl	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	H	ОН
CF ₃	O-acyl	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	OH
CF ₃	O-acyl	Н		6-N-acetyl-2-amino-8-methyladenine	Н	ОН
CF ₃	O-acyl	Н	O	2-N-acetylamino-8-methyladenine	+	ОН
CF ₃	O-acyl	Н	O	2-N-acetylamino-8-	Н	OH
~				methylhypoxanthine		
CF ₃	O-acyl	Н	O	6-Methylthymine	ОН	Н
CF ₃	O-acyl	Н	O	6-Methyluracil	ОН	Н
CF ₃	O-acyl	Н	O	8-Methylguanine	OH	H
CF ₃	O-acyl	H	О	6-Methylcytosine	OH	Н
CF ₃	O-acyl	Н	O	8-Methyladenine	ОН	Н
CF ₃	O-acyl	Н	О	8-Methylhypoxanthine	ОН	Н
CF ₃	O-acyl	Н	O	5-Fluoro-6-Methyluracil	ОН	Н
CF ₃	O-acyl	H	O	5-Fluoro-6-Methylcytosine	ОН	Н
CF ₃	O-acyl	Н	O	2-Fluoro-8-methyladenine	ОН	Н
CF ₃	O-acyl	Н	O	2-Fluoro-8-methylhypoxanthine	ОН	Н
CF ₃	O-acyl	Н	0	2-Amino-8-methyladenine	ОН	Н

\mathbb{R}^6	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-acyl	Н	О	2-Amino-8-methylhypoxanthine	ОН	H
CF ₃	O-acyl	H	0	2-N-acetyl-8-methylguanine	OH	Н
CF ₃	O-acyl	Н	0	4-N-acetyl-8-methylcytosine	ОН	Н
CF ₃	O-acyl	Н	О	6-N-acetyl-8-methyladenine	ОН	Н
CF ₃	O-acyl	Н	0	4-N-acetyl-5-fluoro-8-methylcytosine	ОН	Н
CF ₃	O-acyl	Н	0	6-N-acetyl-2-fluoro-8-methyladenine	ОН	Н
CF ₃	O-acyl	Н	О	6-N-acetyl-2-amino-8-methyladenine	ОН	Н
CF ₃	O-acyl	H	O	2-N-acetylamino-8-methyladenine	ОН	Н
CF ₃	O-acyl	Ĥ	O	2-N-acetylamino-8-	OH	Н
				methylhypoxanthine		
CF ₃	O-amino acid	F	О	6-Methylthymine	F	Н
CF ₃	O-amino acid	F	O	6-Methyluracil	F	Н
CF ₃	O-amino acid	F	O	8-Methylguanine	F	Н
CF ₃	O-amino acid	F	О	6-Methylcytosine	F	Н
CF ₃	O-amino acid	F	0	8-Methyladenine	F	Н
CF ₃	O-amino acid	F	Ō	8-Methylhypoxanthine	F	H
CF ₃	O-amino acid	F	ō	5-Fluoro-6-Methyluracil	F	Н
CF ₃	O-amino acid	F	o	5-Fluoro-6-Methylcytosine	F	H
CF ₃	O-amino acid	F	o	2-Fluoro-8-methyladenine	F	H
CF ₃	O-amino acid	F	o	2-Fluoro-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	F	o	2-Amino-8-methyladenine	F	H
CF ₃	O-amino acid	F	o	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	F	o	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-amino acid	F	o	4-N-acetyl-8-methylcytosine	F	Н
CF ₃	O-amino acid	F	o	6-N-acetyl-8-methyladenine	F	Н
CF ₃	O-amino acid	F	o	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-amino acid	F	o	6-N-acetyl-2-fluoro-8-methyladenine	F	Н
CF ₃	O-amino acid	F	o	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	F	Н
CF ₃	O-amino acid	F	o	2-N-acetylamino-8-	F	H
		1		methylhypoxanthine	*	
CF ₃	O-amino acid	F	О	6-Methylthymine	F	O-amino acid
CF ₃	O-amino acid			6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	F	o	8-Methylguanine	F	O-amino acid
CF ₃	O-amino acid	F	o	6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	F	o	8-Methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	o	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	F	o	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	F	0	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	F	0	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	0	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	F	0	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	0		F	O-amino acid
		F	0	2-Amino-8-methylhypoxanthine	$\frac{\Gamma}{F}$	
CF ₃	O-amino acid	F		2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-amino acid	F	0	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid		0	6-N-acetyl-8-methyladenine		O-amino acid
CF ₃	O-amino acid	F	<u>O</u>	4-N-acetyl-5-fluoro-8-methylcytosine	<u> </u> F	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	0	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	0	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	F	О	2-N-acetylamino-8-	F	O-amino acid
				methylhypoxanthine		
CF ₃	O-amino acid	F	0	6-Methylthymine	F	O-acyl
CF ₃	O-amino acid	F	O	6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	F	О	8-Methylguanine	F	O-acyl
CF ₃	O-amino acid	F	O	6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	F	О	8-Methyladenine	F	O-acyl
CF ₃	O-amino acid	F	О	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	F	О	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	F	О	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	F	О	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	F	О	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	F	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	О	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-	F	O-acyl
		<u> </u>		methylhypoxanthine		
CF ₃	O-amino acid	F	0	6-Methylthymine	F	ОН
CF ₃	O-amino acid	F	О	6-Methyluracil	F	ОН
CF ₃	O-amino acid	F	O	8-Methylguanine	F	OH
CF ₃	O-amino acid	F	О	6-Methylcytosine	F	ОН
CF ₃	O-amino acid	F	O	8-Methyladenine	F	ОН
CF ₃	O-amino acid	F	О	8-Methylhypoxanthine	F	OH
CF ₃	O-amino acid	F	О	5-Fluoro-6-Methyluracil	F	ОН
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	F	ОН
CF ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	F	ОН
CF ₃	O-amino acid	F	О	2-Amino-8-methyladenine	F	ОН
CF ₃	O-amino acid	F	О	2-Amino-8-methylhypoxanthine	F	ОН
CF ₃	O-amino acid	F	0	2-N-acetyl-8-methylguanine	F	ОН
CF ₃	O-amino acid	F	О	4-N-acetyl-8-methylcytosine	F	ОН
CF ₃	O-amino acid	F	О	6-N-acetyl-8-methyladenine	F	ОН
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	ОН
CF ₃	O-amino acid	F	О	6-N-acetyl-2-fluoro-8-methyladenine	F	ОН
CF ₃	O-amino acid	F	0	6-N-acetyl-2-amino-8-methyladenine	F	ОН
CF ₃	O-amino acid	F	О	2-N-acetylamino-8-methyladenine	F	ОН
CF ₃	O-amino acid	F	О	2-N-acetylamino-8-	F	ОН
		<u></u>		methylhypoxanthine		

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	О	6-Methylthymine	Br	Н
CF ₃	O-amino acid	F	0	6-Methyluracil	Br	Н
CF ₃	O-amino acid	F	0	8-Methylguanine	Br	Н
CF ₃	O-amino acid	F	0	6-Methylcytosine	Br	Н
CF ₃	O-amino acid	F	О	8-Methyladenine	Br	Н
CF ₃	O-amino acid	F	0	8-Methylhypoxanthine	Br	H
CF ₃	O-amino acid	F	0	5-Fluoro-6-Methyluracil	Br	Н
CF ₃	O-amino acid	F	0	5-Fluoro-6-Methylcytosine	Br	Н
CF ₃	O-amino acid	F	0	2-Fluoro-8-methyladenine	Br	Н
CF ₃	O-amino acid	F	0	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	Br	Н
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	Н
CF ₃	O-amino acid	F	Ō	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-amino acid	F	o	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	F	o	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-amino acid	F	0	2-N-acetylamino-8-methyladenine	Br	Н
CF ₃	O-amino acid	F	o	2-N-acetylamino-8-	Br	H
013	o unimo acia	*		methylhypoxanthine	51	11
CF ₃	O-amino acid	F	o	6-Methylthymine	Br	O-amino acid
CF ₃	O-amino acid	F	o	6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	F	o	8-Methylguanine	Br	O-amino acid
CF ₃	O-amino acid	F	o	6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	F	o	8-Methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	o	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	F	o	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	F	ō	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	F	ō	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	o	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	F	o	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	o	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	F	o	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-amino acid	F	0	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	F	ŏ	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	0	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	0	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	F	0	2-N-acetylamino-8-	Br	O-amino acid
C1 3	O-annio acid	1		methylhypoxanthine	וט	O-annio acid
CF ₃	O-amino acid	F	0	6-Methylthymine	Br	O-acyl
CF ₃	O-amino acid	F	0	6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	F	0	8-Methylguanine	Br	O-acyl
CF ₃	O-amino acid	F	0	6-Methylcytosine	Br	
CF ₃	O-amino acid	F	0	8-Methyladenine	Br	O-acyl
CF3	U-amino acid		L <u>V</u>	o-ivicinyiauciinic	DI	O-acyl

\mathbb{R}^6	R ⁷	\mathbb{R}^8	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	О	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	F	o	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	0	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	Ō	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-amino acid	F	o	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	F	Ō	2-N-acetylamino-8-	Br	O-acyl
	9	-		methylhypoxanthine		
CF ₃	O-amino acid	F	О	6-Methylthymine	Br	ОН
CF ₃	O-amino acid	F	Ō	6-Methyluracil	Br	OH
CF ₃	O-amino acid	F	Ō	8-Methylguanine	Br	OH
CF ₃	O-amino acid	F	O	6-Methylcytosine	Br	OH
CF ₃	O-amino acid	F	O	8-Methyladenine	Br	OH
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Br	OH
CF ₃	O-amino acid	F	Ō	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-amino acid	F	0	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-amino acid	F	О	2-Fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	Br	ОН
CF ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Br	ОН
CF ₃	O-amino acid	F	О	2-Amino-8-methylhypoxanthine	Br	ОН
CF ₃	O-amino acid	F	О	2-N-acetyl-8-methylguanine	Br	ОН
CF ₃	O-amino acid	F	О	4-N-acetyl-8-methylcytosine	Br	ОН
CF ₃	O-amino acid	F	О	6-N-acetyl-8-methyladenine	Br	ОН
CF ₃	O-amino acid	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	OH
CF ₃	O-amino acid	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	ОН
CF ₃	O-amino acid	F	О	6-N-acetyl-2-amino-8-methyladenine	Br	ОН
CF ₃	O-amino acid	F	О	2-N-acetylamino-8-methyladenine	Br	ОН
CF ₃	O-amino acid	F	0	2-N-acetylamino-8-	Br	OH
				methylhypoxanthine	•	
CF ₃	O-amino acid	F	О	6-Methylthymine	Cl	Н
CF ₃	O-amino acid	F	О	6-Methyluracil	Cl	Н
CF ₃	O-amino acid	F	О	8-Methylguanine	Cl	Н
CF ₃	O-amino acid	F	О	6-Methylcytosine	Cl	Н
CF ₃	O-amino acid	F	О	8-Methyladenine	Cl	Н
CF ₃	O-amino acid	F	О	8-Methylhypoxanthine	Cl	Н
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	Н
CF ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Cl	Н
CF ₃	O-amino acid	F	0	2-Fluoro-8-methyladenine	Cl	Н
CF ₃	O-amino acid	F	0	2-Fluoro-8-methylhypoxanthine	Cl	Н

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Cl	Н
CF ₃	O-amino acid	F	О	2-Amino-8-methylhypoxanthine	Cl	Н
CF ₃	O-amino acid	F	О	2-N-acetyl-8-methylguanine	Cl	Н
CF ₃	O-amino acid	F	О	4-N-acetyl-8-methylcytosine	Cl	Н
CF ₃	O-amino acid	F	0	6-N-acetyl-8-methyladenine	Cl	Н
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	Н
CF ₃	O-amino acid	F	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	Н
CF ₃	O-amino acid	F	0	6-N-acetyl-2-amino-8-methyladenine	Cl	Н
CF ₃	O-amino acid	F	0	2-N-acetylamino-8-methyladenine	Cl	Н
CF ₃	O-amino acid	F	О	2-N-acetylamino-8-	Cl	Н
				methylhypoxanthine		
CF ₃	O-amino acid	F	0	6-Methylthymine	Cl	O-amino acid
CF ₃	O-amino acid	F	О	6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	F	0	8-Methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	F	О	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	F	0	8-Methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	О	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	О	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	F	0	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	F	О	6-N-acetyl-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	О	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	F	0	2-N-acetylamino-8-	Cl	O-amino acid
				methylhypoxanthine		
CF ₃	O-amino acid	F	О	6-Methylthymine	Cl	O-acyl
CF ₃	O-amino acid	F	О	6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	F	О	8-Methylguanine	Cl	O-acyl
CF ₃	O-amino acid	F	О	6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	F	О	8-Methyladenine	CI	O-acyl
CF ₃	O-amino acid	F	О	8-Methylhypoxanthine	CI	O-acyl
CF ₃	O-amino acid	F	О	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	F	О	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	Ö	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	F	О	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-amino acid	F	О	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	F	О	6-N-acetyl-8-methyladenine	Cl	O-acyl

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	F	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	0	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	0	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	F	0	2-N-acetylamino-8-	Cl	O-acyl
				methylhypoxanthine		
CF ₃	O-amino acid	F	O	6-Methylthymine	Cl	ОН
CF ₃	O-amino acid	F	O	6-Methyluracil	CI	OH
CF ₃	O-amino acid	F	О	8-Methylguanine	Cl	ОН
CF ₃	O-amino acid	F	О	6-Methylcytosine	Cl .	ОН
CF ₃	O-amino acid	F	O	8-Methyladenine	Cl	ОН
CF ₃	O-amino acid	F	О	8-Methylhypoxanthine	Cl	ОН
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Cl	ОН
CF ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	F	О	2-Fluoro-8-methyladenine	Cl	ОН
CF ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	Cl	ОН
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	Cl	ОН
CF ₃	O-amino acid	F	О	2-Amino-8-methylhypoxanthine	Cl	ОН
CF ₃	O-amino acid	F	О	2-N-acetyl-8-methylguanine	Čl	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Cl	ОН
CF ₃	O-amino acid	F	O	6-N-acetyl-8-methyladenine	Cl	ОН
CF ₃	O-amino acid	F	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	ОН
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	F	О	6-N-acetyl-2-amino-8-methyladenine	Cl	ОН
CF ₃	O-amino acid	F	O	2-N-acetylamino-8-methyladenine	Cl	ОН
CF ₃	O-amino acid	F	О	2-N-acetylamino-8-	Cl	OH
				methylhypoxanthine	1	
CF ₃	O-amino acid	F	О	6-Methylthymine	Н	Н
CF ₃	O-amino acid	F	O	6-Methyluracil	Н	Н
CF ₃	O-amino acid	F	O	8-Methylguanine	Н	Н
CF ₃	O-amino acid	F	0	6-Methylcytosine	Н	Н
CF ₃	O-amino acid	F	0	8-Methyladenine	Н	Н
CF ₃	O-amino acid	F	О	8-Methylhypoxanthine	Н	Н
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Н	Н
CF ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	H	Н
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	Н	Н
CF ₃	O-amino acid	F	О	2-Fluoro-8-methylhypoxanthine	Н	Н
CF ₃	O-amino acid	F	О	2-Amino-8-methyladenine	Н	Н
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	Н
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	Н	H
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	Н	Н
CF ₃	O-amino acid	F	О	6-N-acetyl-8-methyladenine	Н	Н
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	H	Н
CF ₃	O-amino acid	F	o	6-N-acetyl-2-amino-8-methyladenine	H	H
CF ₃	O-amino acid	F	o	2-N-acetylamino-8-methyladenine	H	H
CF ₃	O-amino acid	F	o	2-N-acetylamino-8-	H	Н
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R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
		7		methylhypoxanthine		
CF ₃	O-amino acid	F	O	6-Methylthymine	H	O-amino acid
CF ₃	O-amino acid	F	О	6-Methyluracil	H	O-amino acid
CF ₃	O-amino acid	F	О	8-Methylguanine	H	O-amino acid
CF ₃	O-amino acid	F	0	6-Methylcytosine	H	O-amino acid
CF ₃	O-amino acid	F	O	8-Methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	8-Methylhypoxanthine	Н	O-amino acid
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	Н	O-amino acid
CF ₃	O-amino acid	F	0	5-Fluoro-6-Methylcytosine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-Fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	o	2-Fluoro-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	O-amino acid
CF ₃	O-amino acid	F	o	2-N-acetyl-8-methylguanine	H	O-amino acid
CF ₃	O-amino acid	F	o	4-N-acetyl-8-methylcytosine	Н	O-amino acid
CF ₃	O-amino acid	F	o	6-N-acetyl-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	F	o	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	F	o	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CF ₃	O-amino acid	F	o	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CF ₃	O-amino acid	F	ŏ	2-N-acetylamino-8-methyladenine	$\frac{11}{H}$	O-amino acid
CF ₃	O-amino acid	F	o	2-N-acetylamino-8-	H	O-amino acid
CIS		1		methylhypoxanthine	111	O-ammo acid
CF ₃	O-amino acid	F	o	6-Methylthymine	H	O-acyl
CF ₃	O-amino acid	F	o	6-Methyluracil	H	O-acyl
CF ₃	O-amino acid	F	o	8-Methylguanine	H	O-acyl
CF ₃	O-amino acid	F	o	6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	F	Ö	8-Methyladenine	H	O-acyl
CF ₃	O-amino acid	F	Ō	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	F	O	5-Fluoro-6-Methyluracil	H	O-acyl
CF ₃	O-amino acid	F	ō	5-Fluoro-6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	F	o	2-Fluoro-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	o	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CF ₃	O-amino acid	F	O	2-Amino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	o	2-Amino-8-methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	F	o	2-N-acetyl-8-methylguanine	H	O-acyl
CF ₃	O-amino acid	F	ō	4-N-acetyl-8-methylcytosine	H	O-acyl
CF ₃	O-amino acid	F	o	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-acyl
CF ₃	O-amino acid	F	o	6-N-acetyl-2-fluoro-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	o	6-N-acetyl-2-amino-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	F	o	2-N-acetylamino-8-methyladenine	Н	O-acyl
CF ₃	O-amino acid	F	o	2-N-acetylamino-8-	Н	O-acyl
V 1 3		*		methylhypoxanthine	**	
CF ₃	O-amino acid	F	0	6-Methylthymine	Н	ОН
CF ₃	O-amino acid	F	0	6-Methyluracil	Н	ОН
CF ₃	O-amino acid	F	0	8-Methylguanine	H	OH
CF ₃	O-amino acid	F	0	6-Methylcytosine	Н	OH
C1'3	J-amino acid			U-ivicinyle y to sine	111	J OII

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	F	О	8-Methyladenine	Н	ОH
CF ₃	O-amino acid	F	0	8-Methylhypoxanthine	Н	OH
CF ₃	O-amino acid	F	О	5-Fluoro-6-Methyluracil	Н	ОН
CF ₃	O-amino acid	F	О	5-Fluoro-6-Methylcytosine	H	ОН
CF ₃	O-amino acid	F	0	2-Fluoro-8-methyladenine	Н	ОН
CF ₃	O-amino acid	F	0	2-Fluoro-8-methylhypoxanthine	H	ОН
CF ₃	O-amino acid	F	0	2-Amino-8-methyladenine	H	OH
CF ₃	O-amino acid	F	O	2-Amino-8-methylhypoxanthine	H	ОН
CF ₃	O-amino acid	F	O	2-N-acetyl-8-methylguanine	H	OH
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	H	ОН
CF ₃	O-amino acid	F	Ō	6-N-acetyl-8-methyladenine	Н	OH
CF ₃	O-amino acid	F	Ō	4-N-acetyl-5-fluoro-8-methylcytosine	H	ОН
CF ₃	O-amino acid	F	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	OH
CF ₃	O-amino acid	F	o	6-N-acetyl-2-amino-8-methyladenine	H	OH
CF ₃	O-amino acid	F	Ō	2-N-acetylamino-8-methyladenine	H	OH
CF ₃	O-amino acid	F	o	2-N-acetylamino-8-	H	OH
		1		methylhypoxanthine	11	
CF ₃	O-amino acid	F	О	6-Methylthymine	ОН	Н
CF ₃	O-amino acid	F	o	6-Methyluracil	OH	H
CF ₃	O-amino acid	F	o	8-Methylguanine	OH	Н
CF ₃	O-amino acid	F	o	6-Methylcytosine	OH	H
CF ₃	O-amino acid	F	O	8-Methyladenine	OH	H
CF ₃	O-amino acid	F	o	8-Methylhypoxanthine	OH	H
CF ₃	O-amino acid	F	o	5-Fluoro-6-Methyluracil	OH	Н
CF ₃	O-amino acid	F	Ö	5-Fluoro-6-Methylcytosine	OH	H
CF ₃	O-amino acid	F	o	2-Fluoro-8-methyladenine	OH	H
CF ₃	O-amino acid	F	o	2-Fluoro-8-methylhypoxanthine	OH	H
CF ₃	O-amino acid	F	o	2-Amino-8-methyladenine	OH	Н
CF ₃	O-amino acid	F	o	2-Amino-8-methylhypoxanthine	OH	Н
CF ₃	O-amino acid	F	ō	2-N-acetyl-8-methylguanine	OH	H
CF ₃	O-amino acid	F	O	4-N-acetyl-8-methylcytosine	OH	Н
CF ₃	O-amino acid	F	o	6-N-acetyl-8-methyladenine	OH	Н
CF ₃	O-amino acid	F	ō	4-N-acetyl-5-fluoro-8-methylcytosine	OH	Н
CF ₃	O-amino acid	F	o	6-N-acetyl-2-fluoro-8-methyladenine	OH	Н
CF ₃	O-amino acid	F	o	6-N-acetyl-2-amino-8-methyladenine	OH	Н
CF ₃	O-amino acid	F	o	2-N-acetylamino-8-methyladenine	OH	Н
CF ₃	O-amino acid	F	ō	2-N-acetylamino-8-	OH	H
		^	~	methylhypoxanthine		11
CF ₃	O-amino acid	Br	o	6-Methylthymine	F	Н
CF ₃	O-amino acid	Br	o	6-Methyluracil	F.	H
CF ₃	O-amino acid	Br	0	8-Methylguanine	F	H
CF ₃	O-amino acid	Br	o	6-Methylcytosine	F	H
CF ₃	O-amino acid	Br	0	8-Methyladenine	F	H
CF ₃	O-amino acid	Br	0	8-Methylhypoxanthine	F	H
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methyluracil	F	Н
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	F	Н
CF ₃	 		0	2-Fluoro-8-methyladenine	F	
LCF3	O-amino acid	Br	U	Z-r iuoro-8-ineuryiadenine	<u> r</u>	H

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	0	2-Fluoro-8-methylhypoxanthine	F	Н
CF ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	F	Н
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	Н
CF ₃	O-amino acid	Br	0	2-N-acetyl-8-methylguanine	F	Н
CF ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	F	Н
CF ₃	O-amino acid	Br	0	6-N-acetyl-8-methyladenine	F	Н
CF ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	Н
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	F	Н
CF ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	F	Н
CF ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	F	Н
CF ₃	O-amino acid	Br	О	2-N-acetylamino-8-	F	H
5				methylhypoxanthine		
CF ₃	O-amino acid	Br	O	6-Methylthymine	F	O-amino acid
CF ₃	O-amino acid	Br	0	6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	Br	Ō	8-Methylguanine	F	O-amino acid
CF ₃	O-amino acid	Br	O	6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Br	o	8-Methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	Ö	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Br	o	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	Br	o	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Br	o	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	o	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Br	0	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	o	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Br	0	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-amino acid	Br	0	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Br	0	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-methyladenine	$\frac{1}{F}$	O-amino acid
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-methyladenne 2-N-acetylamino-8-	F	O-amino acid
Cr ₃	O-annio acid	Di	U	methylhypoxanthine	1	O-amino acid
CF ₃	O-amino acid	Br	0	6-Methylthymine	F	O-acyl
CF ₃	O-amino acid	Br	0	6-Methyluracil	$\frac{1}{F}$	O-acyl
CF ₃	O-amino acid	Br	0	8-Methylguanine	F	O-acyl
CF ₃	O-amino acid	Br	0	6-Methylcytosine	F	O-acyl
	O-amino acid	Br	0	8-Methyladenine	F	
CF ₃	O-amino acid	Br	0	8-Methylhypoxanthine	F	O-acyl O-acyl
		Br		5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	+	0	+		· · · · · · · · · · · · · · · · · · ·
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	Br	0	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	0	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Br	0	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	0	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Br	0	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	O-acyl

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-	F	O-acyl
				methylhypoxanthine		
CF ₃	O-amino acid	Br	O	6-Methylthymine	F	ОН
CF ₃	O-amino acid	Br	О	6-Methyluracil	F	OH
CF ₃	O-amino acid	Br	О	8-Methylguanine	F	ОН
CF ₃	O-amino acid	Br	О	6-Methylcytosine	F	OH
CF ₃	O-amino acid	Br	O	8-Methyladenine	F	ОН
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	F	OH
CF ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-amino acid	Br	О	5-Fluoro-6-Methylcytosine	F	ОН
CF ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	F	ОН
CF ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	F	ОН
CF ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	F	ОН
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	F	ОН
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	F	ОН
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-amino-8-methyladenine	F	ОН
CF ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-amino acid	Br	О	2-N-acetylamino-8-	F	ОН
				methylhypoxanthine		
CF ₃	O-amino acid	Br	О	6-Methylthymine	Br	Н
CF ₃	O-amino acid	Br	О	6-Methyluracil	Br	Н
CF ₃	O-amino acid	Br	0	8-Methylguanine	Br	Н
CF ₃	O-amino acid	Br	О	6-Methylcytosine	Br	Н
CF ₃	O-amino acid	Br	О	8-Methyladenine	Br	Н
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	Н
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Br	Н
CF ₃	O-amino acid	Br	О	5-Fluoro-6-Methylcytosine	Br	Н
CF ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	Br	Н
CF ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	Br	H
CF ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	Br	Н
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	Н
CF ₃	O-amino acid	Br	0_	4-N-acetyl-8-methylcytosine	Br	Н
CF ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	Br	Н
CF ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	Н
CF ₃	O-amino acid	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	Н
CF ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	Br	Н
CF ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	Br	Н

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-	Br	Н
_				methylhypoxanthine		
CF ₃	O-amino acid	Br	0	6-Methylthymine	Br	O-amino acid
CF ₃	O-amino acid	Br	0	6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	Br	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-amino acid	Br	О	6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Br	О	8-Methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	Ö	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Br	0	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-amino acid	Br	0	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	o	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine		
CF ₃	O-amino acid	Br	O	6-Methylthymine	Вг	O-acyl
CF ₃	O-amino acid	Br	О	6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	Br	О	8-Methylguanine	Br	O-acyl
CF ₃	O-amino acid	Br	0	6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Br	О	8-Methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	0	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Br	О	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine		
CF ₃	O-amino acid	Br	О	6-Methylthymine	Br	ОН
CF ₃	O-amino acid	Br	О	6-Methyluracil	Br	ОН
CF ₃	O-amino acid	Br	0	8-Methylguanine	Br	ОН

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	О	6-Methylcytosine	Br	ОН
CF ₃	O-amino acid	Br	O	8-Methyladenine	Br	ОН
CF ₃	O-amino acid	Br	0	8-Methylhypoxanthine	Br	ОН
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methyluracil	Br	ОН
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	Br	ОН
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Br	ОН
CF ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Br	0	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	Br	ОН
CF ₃	O-amino acid	Br	O	6-N-acetyl-8-methyladenine	Br	ОН
CF ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	ОН
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	ō	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-amino acid	Br	o	2-N-acetylamino-8-	Br	ОН
		ָרָב, ו	0	methylhypoxanthine	"	
CF ₃	O-amino acid	Br	О	6-Methylthymine	Cl	H
CF ₃	O-amino acid	Br	o	6-Methyluracil	Cl	H
CF ₃	O-amino acid	Br	ō	8-Methylguanine	Cl	H
CF_3	O-amino acid	Br	o	6-Methylcytosine	CI	H
CF ₃	O-amino acid	Br	ŏ	8-Methyladenine	Cl	H
CF ₃	O-amino acid	Br	ō	8-Methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Br	o	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-amino acid	Br	o	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-amino acid	Br	o	2-Fluoro-8-methyladenine	Cl	Н
CF ₃	O-amino acid	Br	ō	2-Fluoro-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Br	ō	2-Amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	o	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	Br	o	2-N-acetyl-8-methylguanine	Cl	H
CF ₃	O-amino acid	Br	ō	4-N-acetyl-8-methylcytosine	Cl	Н
CF ₃	O-amino acid	Br	o	6-N-acetyl-8-methyladenine	Çl	H
CF ₃	O-amino acid	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
CF ₃	O-amino acid	Br	o	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	o	6-N-acetyl-2-amino-8-methyladenine	Cl	Н
CF ₃	O-amino acid	Br	o	2-N-acetylamino-8-methyladenine	Cl	H
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-	Cl	H
		Di		methylhypoxanthine	CI	
CF ₃	O-amino acid	Br	0	6-Methylthymine	Cl	O-amino acid
CF ₃	O-amino acid	Br	0	6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	Br	0	8-Methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	Br	0	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Br	0	8-Methyladenine	Cl	O-amino acid
CF_3		Br	0	8-Methylhypoxanthine	Cl	O-amino acid
	O-amino acid		-	5-Fluoro-6-Methyluracil	Cl	
CF ₃	O-amino acid	Br	0			O-amino acid
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	Cl	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	0	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Br	0	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Cl	O-amino acid
CF ₃	O-amino acid	Br	0	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Br	0	6-N-acetyl-8-methyladenine	CI	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-	Cl	O-amino acid
1				methylhypoxanthine		
CF ₃	O-amino acid	Br	0	6-Methylthymine	Cl	O-acyl
CF ₃	O-amino acid	Br	0	6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	Br	0	8-Methylguanine	Cl	O-acyl
CF ₃	O-amino acid	Br	0	6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Br	0	8-Methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	О	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Br	0	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	0	2-Fluoro-8-methylhypoxanthine	Cĺ	O-acyl
CF ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	0	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-amino acid	Br -	0	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-	Cl	O-acyl
	_		ļ	methylhypoxanthine		·
CF ₃	O-amino acid	Br	О	6-Methylthymine	Cl	ОН
CF ₃	O-amino acid	Br	О	6-Methyluracil	Cl	OH
CF ₃	O-amino acid	Br	О	8-Methylguanine	Cl	OH
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	Br	О	8-Methyladenine	Cl	OH
CF ₃	O-amino acid	Br	О	8-Methylhypoxanthine	Cl	ОН
CF ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	Cl	ОН
CF ₃	O-amino acid	Br	О	5-Fluoro-6-Methylcytosine	Cl	ОН
CF ₃	O-amino acid	Br	Ó	2-Fluoro-8-methyladenine	Cl	ОН
CF ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	Cl	ОН
CF ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	Cl	ОН
CF ₃	O-amino acid	Br	0	2-Amino-8-methylhypoxanthine	Cl	ОН
CF ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Cl	OH

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	Cl	OH
CF ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	Cl	ОН
CF ₃	O-amino acid	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	ОН
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	Cl	ОН
CF ₃	O-amino acid	Br	О	2-N-acetylamino-8-	Cl	ОН
				methylhypoxanthine		
CF ₃	O-amino acid	Br	0	6-Methylthymine	Н	Н
CF ₃	O-amino acid	Br	О	6-Methyluracil	Н	H
CF ₃	O-amino acid	Br	0	8-Methylguanine	Н	Н
CF ₃	O-amino acid	Br	0	6-Methylcytosine	Н	Н
CF ₃	O-amino acid	Br	О	8-Methyladenine	Н	Н
CF ₃	O-amino acid	Br	O,	8-Methylhypoxanthine	Н	H
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methyluracil	Н	Н
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	Н	Н
CF ₃	O-amino acid	Br	0	2-Fluoro-8-methyladenine	Н	Н
CF ₃	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	Н	H
CF ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	H	H
CF ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	H	Н
CF ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Н	H
CF ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	Н	H
CF ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	Н	H
CF ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	H	H
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-fluoro-8-methyladenine	H	Н
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	Н	Н
CF ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	Н	Н
CF ₃	O-amino acid	Br	O	2-N-acetylamino-8-	H	Н
				methylhypoxanthine		
CF ₃	O-amino acid	Br	0	6-Methylthymine	Н	O-amino acid
CF ₃	O-amino acid	Br	0	6-Methyluracil	Н	O-amino acid
CF ₃	O-amino acid	Br	0	8-Methylguanine	Н	O-amino acid
CF ₃	O-amino acid	Br	0	6-Methylcytosine	Н	O-amino acid
CF ₃	O-amino acid	Br	0	8-Methyladenine	Н	O-amino acid
CF ₃	O-amino acid	Br	О	8-Methylhypoxanthine	Н	O-amino acid
CF ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	Н	O-amino acid
CF ₃	O-amino acid	Br	О	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	Н	O-amino acid
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CF ₃	O-amino acid	Br	0	2-Amino-8-methyladenine	Н	O-amino acid
CF ₃	O-amino acid	Br	0	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CF ₃	O-amino acid	Br	0	2-N-acetyl-8-methylguanine	Н	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	Br	0	6-N-acetyl-8-methyladenine	Н	O-amino acid
CF ₃	O-amino acid	Br	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	Br	О	6-N-acetyl-2-fluoro-8-methyladenine	H	O-amino acid
CF ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-	Н	O-amino acid
_				methylhypoxanthine		
CF ₃	O-amino acid	Br	О	6-Methylthymine	Н	O-acyl
CF ₃	O-amino acid	Br	О	6-Methyluracil	Н	O-acyl
CF ₃	O-amino acid	Br	0	8-Methylguanine	Н	O-acyl
CF ₃	O-amino acid	Br	О	6-Methylcytosine	Н	O-acyl
CF ₃	O-amino acid	Br	0	8-Methyladenine	Н	O-acyl
CF ₃	O-amino acid	Br	0	8-Methylhypoxanthine	Н	O-acyl
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methyluracil	Н	O-acyl
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	Н	O-acyl
CF ₃	O-amino acid	Br	О	2-Fluoro-8-methyladenine	Н	O-acyl
CF ₃	O-amino acid	Br	0	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CF ₃	O-amino acid	Br	0	2-Amino-8-methyladenine	Н	O-acyl
CF ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	Н	O-acyl
CF ₃	O-amino acid	Br	0	2-N-acetyl-8-methylguanine	Н	O-acyl
CF ₃	O-amino acid	Br	O	4-N-acetyl-8-methylcytosine	Н	O-acyl
CF ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	H	O-acyl
CF ₃	O-amino acid	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CF ₃	O-amino acid	Br	О	2-N-acetylamino-8-methyladenine	Н	O-acyl
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-	Н	O-acyl
				methylhypoxanthine		
CF ₃	O-amino acid	Br	О	6-Methylthymine	Н	OH
CF ₃	O-amino acid	Br	О	6-Methyluracil	Н	OH
CF ₃	O-amino acid	Br	О	8-Methylguanine	Н	ОН
CF ₃	O-amino acid	Br	O	6-Methylcytosine	Н	ОН
CF ₃	O-amino acid	Br	О	8-Methyladenine	H	ОН
CF ₃	O-amino acid	Br	O	8-Methylhypoxanthine	H	ОН
CF ₃	O-amino acid	Br	О	5-Fluoro-6-Methyluracil	Н	ОН
CF ₃	O-amino acid	Br	O	5-Fluoro-6-Methylcytosine	H	ОН
CF ₃	O-amino acid	Br	0	2-Fluoro-8-methyladenine	H	OH
CF_3	O-amino acid	Br	О	2-Fluoro-8-methylhypoxanthine	Н	ОН
CF ₃	O-amino acid	Br	О	2-Amino-8-methyladenine	H	OH
CF ₃	O-amino acid	Br	О	2-Amino-8-methylhypoxanthine	Н	ОН
CF ₃	O-amino acid	Br	О	2-N-acetyl-8-methylguanine	Н	ОН
CF ₃	O-amino acid	Br	О	4-N-acetyl-8-methylcytosine	Н	ОН
CF ₃	O-amino acid	Br	0	6-N-acetyl-8-methyladenine	Н	ОН
CF ₃	O-amino acid	Br	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	ОН
CF ₃	O-amino acid	Br	.O	6-N-acetyl-2-fluoro-8-methyladenine	Н	ОН
CF ₃	O-amino acid	Br	О	6-N-acetyl-2-amino-8-methyladenine	Н	ОН
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-methyladenine	H	ОН
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-	Н	ОН
				methylhypoxanthine	1	
CF ₃	O-amino acid	Br	О	6-Methylthymine	OH	H
CF ₃	O-amino acid	Br	0	6-Methyluracil	ОН	Н

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Br	О	8-Methylguanine	OH	Н
CF ₃	O-amino acid	Br	O	6-Methylcytosine	OH	Н
CF ₃	O-amino acid	Br	0	8-Methyladenine	OH	Н
CF ₃	O-amino acid	Br	О	8-Methylhypoxanthine	OH	Н
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methyluracil	ОН	H
CF ₃	O-amino acid	Br	0	5-Fluoro-6-Methylcytosine	ОН	Н
CF ₃	O-amino acid	Br	O	2-Fluoro-8-methyladenine	ОН	Н
CF ₃	O-amino acid	Br	0	2-Fluoro-8-methylhypoxanthine	ОН	Н
CF ₃	O-amino acid	Br	0	2-Amino-8-methyladenine	ОН	Н
CF ₃	O-amino acid	Br	0	2-Amino-8-methylhypoxanthine	ОН	H
CF ₃	O-amino acid	Br	0	2-N-acetyl-8-methylguanine	ОН	Н
CF ₃	O-amino acid	Br	0	4-N-acetyl-8-methylcytosine	ОН	Н
CF ₃	O-amino acid	Br	О	6-N-acetyl-8-methyladenine	ОН	Н
CF ₃	O-amino acid	Br	0	4-N-acetyl-5-fluoro-8-methylcytosine	ОН	Н
CF ₃	O-amino acid	Br	O	6-N-acetyl-2-fluoro-8-methyladenine	OH	H
CF ₃	O-amino acid	Br	0	6-N-acetyl-2-amino-8-methyladenine	OH	Н
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-methyladenine	ОН	Н
CF ₃	O-amino acid	Br	0	2-N-acetylamino-8-	ОН	H
- 3			_	methylhypoxanthine		
CF ₃	O-amino acid	Cl	O	6-Methylthymine	F	H
CF ₃	O-amino acid	Cl	0	6-Methyluracil	F	Н
CF ₃	O-amino acid	Cl	Ō	8-Methylguanine	F	H
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	F	Н
CF ₃	O-amino acid	Cl	O	8-Methyladenine	F	Н
CF ₃	O-amino acid	CI	0	8-Methylhypoxanthine	F	Н
CF ₃	O-amino acid	Cl	0	5-Fluoro-6-Methyluracil	F	Н
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	F	Н
CF ₃	O-amino acid	Cl	0	2-Fluoro-8-methyladenine	F	Н
CF ₃	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	F	Н
CF ₃	O-amino acid	Cl	0	2-Amino-8-methyladenine	F	Н
CF ₃	O-amino acid	Cl	О	2-Amino-8-methylhypoxanthine	F	Н
CF ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	F	H
CF ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	F	Н
CF ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	F	Н
CF ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	Н
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	F	Н
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	F	Н
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	F	Н
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-	F	Н
				methylhypoxanthine		
CF ₃	O-amino acid	Cl	O	6-Methylthymine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methylguanine	F	O-amino acid
CF ₃	O-amino acid	Cl	0	6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Cl	ō	8-Methyladenine	F	O-amino acid
CF ₃	O-amino acid	Cl	ō	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Cl	Ō	5-Fluoro-6-Methyluracil	F	O-amino acid

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Cl	0	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Cl	0	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Cl	Ó	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	F	O-amino acid
$\overline{\text{CF}_3}$	O-amino acid	Cl	0	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	CI	0	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	CI	0	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Cl	0	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Cl	0	2-N-acetylamino-8-	F	O-amino acid
			ŀ	methylhypoxanthine		
CF ₃	O-amino acid	Cl	0	6-Methylthymine	F	O-acyl
CF ₃	O-amino acid	Cl	0	6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	Cl	0	8-Methylguanine	F	O-acyl
CF ₃	O-amino acid	Cl	0	6-Methylcytosine	F	O-acyl
CF_3	O-amino acid	Cl	0	8-Methyladenine	F	O-acyl
CF ₃	O-amino acid	Cl	0	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Cl	Ó	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	Cl	0	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	Cl .	0	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Cl	0	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Cl	Q	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Cl -	O,	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Cl	0	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-amino acid	Cl	0	4-N-acetyl-8-methylcytosine	F.	O-acyl
CF ₃	O-amino acid	Cl	0	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	C1	0	2-N-acetylamino-8-methyladenine	F	O-acyl
CF_3	O-amino acid	Cl	О	2-N-acetylamino-8-	F	O-acyl
	<u>. </u>		ļ	methylhypoxanthine	<u> </u>	
CF ₃	O-amino acid	Cl	0	6-Methylthymine	F	ОН
CF ₃	O-amino acid	Cl	0	6-Methyluracil	F	OH
CF ₃	O-amino acid	Cl	О	8-Methylguanine	F_	OH
CF ₃	O-amino acid	Cl	О	6-Methylcytosine	F	ОН
CF ₃	O-amino acid	Cl	О	8-Methyladenine	F	ОН
CF ₃	O-amino acid	Cl	0	8-Methylhypoxanthine	F	ОН
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	F	ОН
CF ₃	O-amino acid	Cl	0	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Cl	0	2-Amino-8-methyladenine	F_	ОН
CF ₃	O-amino acid	Cl	0	2-Amino-8-methylhypoxanthine	F	OH

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	F	ОН
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-amino acid	Ci	O	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-methyladenine	F	ОН
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-amino acid	Cl	О	2-N-acetylamino-8-	F	OH
	,			methylhypoxanthine		
CF ₃	O-amino acid	Cl	O	6-Methylthymine	Br	Н
CF ₃	O-amino acid	Cl	О	6-Methyluracil	Br	Н
CF ₃	O-amino acid	Cl	O	8-Methylguanine	Br	Н
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	Br	H
CF ₃	O-amino acid	Cl	О	8-Methyladenine	Br	Н
CF ₃	O-amino acid	Cl	0	8-Methylhypoxanthine	Br	Н
CF ₃	O-amino acid	Cl	0	5-Fluoro-6-Methyluracil	Br	Н
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-amino acid	Cl	o	2-Fluoro-8-methyladenine	Br	Н
CF ₃	O-amino acid	Cl	o	2-Fluoro-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	Cl	ō	2-Amino-8-methyladenine	Br	H
CF ₃	O-amino acid	Cl	ō	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	Cl	o	2-N-acetyl-8-methylguanine	Br	H
CF ₃	O-amino acid	Cl	o	4-N-acetyl-8-methylcytosine	Br	H
CF ₃	O-amino acid	Cl	o	6-N-acetyl-8-methyladenine	Br	H
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	H
CF ₃	O-amino acid	Cl	o	6-N-acetyl-2-fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	Cl	o	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-amino acid	Cl	o	2-N-acetylamino-8-methyladenine	Br	Н
CF ₃	O-amino acid	Cl	0	2-N-acetylamino-8-	Br	H
		``		methylhypoxanthine		1 **
CF ₃	O-amino acid	Cl	O	6-Methylthymine	Br	O-amino acid
CF ₃	O-amino acid	Cl	o	6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	Cl	o	8-Methylguanine	Br	O-amino acid
CF ₃	O-amino acid	Cl	Ō	6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Cl	o	8-Methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Cl	o	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Cl	o	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	Cl	0	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Cl	o	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Cl	o	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Cl	0	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Cl	0	2-Anino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Cl	0	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-amino acid	Cl	0	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Cl	0	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Cl	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Cl	0	<u> </u>	Br	
СГЗ	U-amino acid		\mathbf{L}	6-N-acetyl-2-fluoro-8-methyladenine	DI	O-amino acid

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Cl	0	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-	Вг	O-amino acid
				methylhypoxanthine		
CF ₃	O-amino acid	Cl	O	6-Methylthymine	Br	O-acyl
CF ₃	O-amino acid	Cl	О	6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	Cl	O	8-Methylguanine	Br	O-acyl
CF ₃	O-amino acid	Cl	0	6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Cl	О	8-Methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	О	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	Cl	0	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Cl	О	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃ _	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Cl	О	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	О	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	CI	О	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	О	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Cl	О	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine		
CF ₃	O-amino acid	Cl	O	6-Methylthymine	Br	OH
CF ₃	O-amino acid	Cl	O	6-Methyluracil	Br	ОН
CF ₃	O-amino acid	Cl	O	8-Methylguanine	Br	OH
CF ₃	O-amino acid	Cl	0	6-Methylcytosine	Br	ОН
CF ₃	O-amino acid	Cl	О	8-Methyladenine	Br	ОН
CF ₃	O-amino acid	Cl	О	8-Methylhypoxanthine	Br	ОН
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	Br	ОН
CF ₃	O-amino acid	Cl	0	5-Fluoro-6-Methylcytosine	Br	ОН
CF ₃	O-amino acid	Cl	0	2-Fluoro-8-methyladenine	Br .	ОН
CF ₃	O-amino acid	Cl	0	2-Fluoro-8-methylhypoxanthine	Br	ОН
CF ₃	O-amino acid	Cl	0	2-Amino-8-methyladenine	Br	ОН
CF ₃	O-amino acid	Cl	0	2-Amino-8-methylhypoxanthine	Br	ОН
CF ₃	O-amino acid	Cl	0	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-amino acid	Cl	0	4-N-acetyl-8-methylcytosine	Br	ОН
CF ₃	O-amino acid	Cl	0	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-amino acid	Cl	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	ОН
CF ₃	O-amino acid	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	Cl	0	6-N-acetyl-2-amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	CI	0	2-N-acetylamino-8-methyladenine	Br	ОН
CF ₃	O-amino açid	Cl	О	2-N-acetylamino-8-	Br	ОН
CE	0	C'		methylhypoxanthine	<u></u>	TT
CF ₃	O-amino acid	Cl	О	6-Methylthymine	Cl	Н

 CF₃ O-am CF₃ O-am CF₃ O-am CF₃ O-am CF₃ O-am 	no acid	Cl	0			
CF ₃ O-am CF ₃ O-am CF ₃ O-am CF ₃ O-am	ino acid		l O	6-Methyluracil	Cl	Н
CF ₃ O-am CF ₃ O-am CF ₃ O-am		Cl	0	8-Methylguanine	Cl	Н
CF ₃ O-am	ino acid	Cl	0	6-Methylcytosine	Cl	H
CF ₃ O-am	ino acid	Cl	О	8-Methyladenine	Cl	Н
	ino acid	Cl	0	8-Methylhypoxanthine	Cl	Н
	ino acid	Cl	0	5-Fluoro-6-Methyluracil	Cl	Н
CF ₃ O-am	ino acid	Cl	0	5-Fluoro-6-Methylcytosine	Cl	Н
CF ₃ O-am	ino acid	Cl	0	2-Fluoro-8-methyladenine	Cl	Н
CF ₃ O-am	ino acid	Cl	0	2-Fluoro-8-methylhypoxanthine	Cl	Н
CF ₃ O-am	ino acid	Cl	0	2-Amino-8-methyladenine	Cl	Н
CF ₃ O-am	ino acid	Cl	0	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃ O-am	ino acid	Cl	0	2-N-acetyl-8-methylguanine	Cl .	H
CF ₃ O-am	ino acid	Cl	0	4-N-acetyl-8-methylcytosine	Cl	Н
	ino acid	Cl	·O	6-N-acetyl-8-methyladenine	Cl	Н
	ino acid	Cl	Ō	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	H
	ino acid	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	Н
	ino acid	Cl	Ó	6-N-acetyl-2-amino-8-methyladenine	Cl	H
	ino acid	Cl	О	2-N-acetylamino-8-methyladenine	Cl	H.
	ino acid	Cl	О	2-N-acetylamino-8-	Cl	H
				methylhypoxanthine		
CF ₃ O-am	ino acid	Cl	О	6-Methylthymine	Cl	O-amino acid
	ino acid	Cl	О	6-Methyluracil	Cl	O-amino acid
L	ino acid	Cl	0	8-Methylguanine	Cl	O-amino acid
	ino acid	Cl	О	6-Methylcytosine	Cl	O-amino acid
	ino acid	Cl	0	8-Methyladenine	Cl	O-amino acid
	ino acid	Cl	0	8-Methylhypoxanthine	Cl	O-amino acid
	ino acid	Cl	О	5-Fluoro-6-Methyluracil	Cl	O-amino acid
	ino acid	Cl	0	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
	ino acid	Cl	0	2-Fluoro-8-methyladenine	Cl	O-amino acid
	ino acid	Cl	Ó	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
	ino acid	Cl	0	2-Amino-8-methyladenine	Cl	O-amino acid
- 1	ino acid	Cl	0	2-Amino-8-methylhypoxanthine	Cl	O-amino acid
	ino acid	C1	O	2-N-acetyl-8-methylguanine	Cl	O-amino acid
	ino acid	Cl	0	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
—	ino acid	Cl	0	6-N-acetyl-8-methyladenine	Cl	O-amino acid
	ino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
	ino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-amino acid
	ino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
	ino acid	Cl	0	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
	ino acid	Cl	0	2-N-acetylamino-8-	Cl	O-amino acid
				methylhypoxanthine		
CF ₃ O-am	ino acid	Cl	0	6-Methylthymine	Cl	O-acyl
· · · · · · · · · · · · · · · · · · ·	ino acid	Cl	O	6-Methyluracil	Cl	O-acyl
	ino acid	Cl	Ō	8-Methylguanine	Cl	O-acyl
	ino acid	Cl	Ō	6-Methylcytosine	Cl	O-acyl
	ino acid	Cl	ō	8-Methyladenine	Cl	O-acyl
	ino acid	Cl	Ō	8-Methylhypoxanthine	Cl	O-acyl

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Cl	0	5-Fluoro-6-Methyluracil	CI	O-acyl
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Cl	О	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Cl	0	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	0	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	Cl	O-acyl
CF ₃	O-amino acid	C	О	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Cl	О	2-N-acetylamino-8-	Cl	O-acyl
				methylhypoxanthine		
CF ₃	O-amino acid	Cl	О	6-Methylthymine	Cl	OH
CF ₃	O-amino acid	Cl	О	6-Methyluracil	Cl	ОН
CF ₃	O-amino acid	Cl	О	8-Methylguanine	Cl	OH
CF ₃	O-amino acid	Cl	Ο	6-Methylcytosine	Cl	OH
CF ₃	O-amino acid	Cl	О	8-Methyladenine	Cl	ОН
CF ₃	O-amino acid	Cl	О	8-Methylhypoxanthine	Cl	OH
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methyluracil	Cl	ОН
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	Cl	ОН
CF ₃	O-amino acid	Cl	О	2-Fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	Cl	ОН
CF ₃	O-amino acid	Cl	О	2-Amino-8-methyladenine	Cl	ОН
CF ₃	O-amino acid	Cl	О	2-Amino-8-methylhypoxanthine	Cl	O <u>H</u>
CF ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	Cl	ОН
CF ₃	O-amino acid	Cl_	О	4-N-acetyl-8-methylcytosine	Cl	ОН
CF ₃	O-amino acid	Cl	O	6-N-acetyl-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	CI	OH
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Cl	0	6-N-acetyl-2-amino-8-methyladenine	Cl	ОН
CF ₃	O-amino acid	Cl	0	2-N-acetylamino-8-methyladenine	Cl	OH
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-	Cl	OH
				methylhypoxanthine	<u> </u>	
CF ₃	O-amino acid	Cl	O	6-Methylthymine	H	Н
CF ₃	O-amino acid	Cl	0	6-Methyluracil	H	H
CF ₃	O-amino acid	Cl	0	8-Methylguanine	H	H
CF ₃	O-amino acid	Cl	0	6-Methylcytosine	H	H
CF ₃	O-amino acid	Cl	0	8-Methyladenine	H	H_
CF ₃	O-amino acid	Cl	0	8-Methylhypoxanthine	Н	H
CF ₃	O-amino acid	Cl	0	5-Fluoro-6-Methyluracil	H	H
CF ₃	O-amino acid	Cl	0	5-Fluoro-6-Methylcytosine	H	H
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	H	H
CF ₃	O-amino acid	Cl	0	2-Fluoro-8-methylhypoxanthine	H	H
CF ₃	O-amino acid	Cl	О	2-Amino-8-methyladenine	H_	H

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Cl	О	2-Amino-8-methylhypoxanthine	Н	Н
CF ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	Н	Н
CF ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	Н	Н
CF ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	Н	Н
CF ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	Н
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	H	H
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Н	Н
CF ₃	O-amino acid	Cl	О	2-N-acetylamino-8-methyladenine	Н	H
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-	Н	H
				methylhypoxanthine		
CF ₃	O-amino acid	Cl	О	6-Methylthymine	H	O-amino acid
CF ₃	O-amino acid	Cl	0	6-Methyluracil	Н	O-amino acid
CF ₃	O-amino acid	Cl	0	8-Methylguanine	Н	O-amino acid
CF ₃	O-amino acid	Cl	О	6-Methylcytosine	Н	O-amino acid
CF ₃	O-amino acid	Cl	O	8-Methyladenine	H	O-amino acid
CF ₃	O-amino acid	Cl	О	8-Methylhypoxanthine	Н	O-amino acid
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methyluracil	Н	O-amino acid
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	Н	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methyladenine	Н	O-amino acid
CF ₃	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	Н	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Н	O-amino acid
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Н	O-amino acid
CF ₃	O-amino acid	Cl	O	2-N-acetyl-8-methylguanine	Н	O-amino acid
CF ₃	O-amino acid	Cl	O	4-N-acetyl-8-methylcytosine	H	O-amino acid
CF ₃	O-amino acid	Čl	O	6-N-acetyl-8-methyladenine	Н	O-amino acid
CF ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-amino acid
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-amino acid
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	Н	O-amino acid
CF ₃	O-amino acid	Cl	·O	2-N-acetylamino-8-methyladenine	Н	O-amino acid
CF ₃	O-amino acid	Čl	O	2-N-acetylamino-8-	Н	O-amino acid
L				methylhypoxanthine		
CF ₃	O-amino acid	Cl	О	6-Methylthymine	Н	O-acyl
CF ₃	O-amino acid	Cl	О	6-Methyluracil	Н	O-acyl
CF ₃	O-amino acid	Cl	О	8-Methylguanine	Н	O-acyl
CF ₃	O-amino acid	Cl	O	6-Methylcytosine	H	O-acyl
CF ₃	O-amino acid	Cl	0	8-Methyladenine	H	O-acyl
CF ₃	O-amino acid	Cl	0	8-Methylhypoxanthine	H	O-acyl
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methyluracil	Ή	O-acyl
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	Н	O-acyl
CF ₃	O-amino acid	Cl	О	2-Fluoro-8-methyladenine	Н	O-acyl
CF ₃	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	Н	O-acyl
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Н	O-acyl
CF ₃	O-amino acid	Cl	O	2-Amino-8-methylhypoxanthine	Н	O-acyl
CF ₃	O-amino acid	Cl	0	2-N-acetyl-8-methylguanine	Н	O-acyl
CF ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	Н	O-acyl
CF ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	Н	O-acyl
CF ₃	O-amino acid	Cl	О	4-N-acetyl-5-fluoro-8-methylcytosine	Н	O-acyl

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Cl	O	6-N-acetyl-2-fluoro-8-methyladenine	Н	O-acyl
CF ₃	O-amino acid	Cl	0	6-N-acetyl-2-amino-8-methyladenine	Н	O-acyl
CF ₃	O-amino acid	Cl	О	2-N-acetylamino-8-methyladenine	Н	O-acyl
CF ₃	O-amino acid	Cl	0	2-N-acetylamino-8-	H	O-acyl
				methylhypoxanthine		
CF ₃	O-amino acid	Cl	О	6-Methylthymine	H	OH
CF ₃	O-amino acid	Cl	O	6-Methyluracil	H	OH
CF ₃	O-amino acid	Cl	0	8-Methylguanine	Н	OH
CF ₃	O-amino acid	Cl	0	6-Methylcytosine	Н	ОН
CF ₃	O-amino acid	Cl	0	8-Methyladenine	Н	OH
CF ₃	O-amino acid	Cl	0	8-Methylhypoxanthine	H	ОН
CF ₃	O-amino acid	Cl	O	5-Fluoro-6-Methyluracil	H	OH
CF ₃	O-amino acid	Cl	0	5-Fluoro-6-Methylcytosine	H	OH
CF ₃	O-amino acid	Cl	0	2-Fluoro-8-methyladenine	H	ОН
CF ₃	O-amino acid	Cl	O	2-Fluoro-8-methylhypoxanthine	H	ОН
CF ₃	O-amino acid	Cl	O	2-Amino-8-methyladenine	Н	OH
CF ₃	O-amino acid	Cl	О	2-Amino-8-methylhypoxanthine	H	OH
CF ₃	O-amino acid	Cl	0	2-N-acetyl-8-methylguanine	H	ОН
CF ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	+H	ОН
CF ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	Н	OH
CF ₃	O-amino acid	Cl	O	4-N-acetyl-5-fluoro-8-methylcytosine	H	ОН
CF ₃	O-amino acid	Cl	0	6-N-acetyl-2-fluoro-8-methyladenine	H	OH
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	H	ОН
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-methyladenine	H	ОН
CF ₃	O-amino acid	Cl	О	2-N-acetylamino-8-	Н	ОН
	L .			methylhypoxanthine		
CF ₃	O-amino acid	Cl	О	6-Methylthymine	OH	Н
CF ₃	O-amino acid	Cl	О	6-Methyluracil	ОН	Н
CF ₃	O-amino acid	Cl	O	8-Methylguanine	ОН	Н
CF ₃	O-amino acid	Cl	О	6-Methylcytosine	OH	Н
CF ₃	O-amino acid	Cİ	O	8-Methyladenine	OH	Н
CF ₃	O-amino acid	Cl	О	8-Methylhypoxanthine	ОН	Н
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methyluracil	OH	Н
CF ₃	O-amino acid	Cl	О	5-Fluoro-6-Methylcytosine	OH	Н
CF ₃	O-amino acid	Cl	О	2-Fluoro-8-methyladenine	OH	H_
CF ₃	O-amino acid	Cl	О	2-Fluoro-8-methylhypoxanthine	ОН	Н
CF ₃	O-amino acid	Cl	О	2-Amino-8-methyladenine	ОН	Н
CF ₃	O-amino acid	Cl	О	2-Amino-8-methylhypoxanthine	ОН	Н
CF ₃	O-amino acid	Cl	О	2-N-acetyl-8-methylguanine	ОН	Н
CF ₃	O-amino acid	Cl	О	4-N-acetyl-8-methylcytosine	ОН	Н
CF ₃	O-amino acid	Cl	О	6-N-acetyl-8-methyladenine	ОН	Н
CF ₃	O-amino acid	Cl_	О	4-N-acetyl-5-fluoro-8-methylcytosine	ОН	Н
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-fluoro-8-methyladenine	ОН	Н
CF ₃	O-amino acid	Cl	О	6-N-acetyl-2-amino-8-methyladenine	OH	Н
CF ₃	O-amino acid	Cl	О	2-N-acetylamino-8-methyladenine	OH	Н
CF ₃	O-amino acid	Cl	O	2-N-acetylamino-8-	OH	Н
				methylhypoxanthine		

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Н	О	6-Methylthymine	F	Н
CF ₃	O-amino acid	Н	0	6-Methyluracil	F	Н
CF ₃	O-amino acid	Н	O	8-Methylguanine	F	Н
CF ₃	O-amino acid	Н	Ο.	6-Methylcytosine	F	H
CF ₃	O-amino acid	Н	О	8-Methyladenine	F	Н
CF ₃	O-amino acid	Н	0	8-Methylhypoxanthine	F	H
CF ₃	O-amino acid	Н	0	5-Fluoro-6-Methyluracil	F	H
CF ₃	O-amino acid	Н	O	5-Fluoro-6-Methylcytosine	F	Н
CF ₃	O-amino acid	Н	О	2-Fluoro-8-methyladenine	F	Н
CF ₃	O-amino acid	Н	O	2-Fluoro-8-methylhypoxanthine	F	Н
CF ₃	O-amino acid	Н	O	2-Amino-8-methyladenine	F	H
CF ₃	O-amino acid	Н	0	2-Amino-8-methylhypoxanthine	F	H
CF ₃	O-amino acid	Н	O	2-N-acetyl-8-methylguanine	F	Н
CF ₃	O-amino acid	Н	О	4-N-acetyl-8-methylcytosine	F	Н
CF ₃	O-amino acid	Н	Ō	6-N-acetyl-8-methyladenine	F	H
CF ₃	O-amino acid	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	F	H
CF ₃	O-amino acid	H	o	6-N-acetyl-2-fluoro-8-methyladenine	F	Н
CF ₃	O-amino acid	Н	Ö	6-N-acetyl-2-amino-8-methyladenine	F	H
CF ₃	O-amino acid	H	ō	2-N-acetylamino-8-methyladenine	F	H
CF ₃	O-amino acid	H	o	2-N-acetylamino-8-	F	H
		1.		methylhypoxanthine	1	
CF ₃	O-amino acid	Н	O	6-Methylthymine	F	O-amino acid
CF ₃	O-amino acid	Н	o	6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	Н	o	8-Methylguanine	F	O-amino acid
CF ₃	O-amino acid	H	o	6-Methylcytosine	$+\frac{1}{F}$	O-amino acid
CF ₃	O-amino acid	Н	o	8-Methyladenine	F	O-amino acid
CF ₃	O-amino acid	Н	o	8-Methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Н	Ö	5-Fluoro-6-Methyluracil	F	O-amino acid
CF ₃	O-amino acid	Н	o	5-Fluoro-6-Methylcytosine	F	O-amino acid
CF ₃	O-amino acid	H	Ō	2-Fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	H	o	2-Fluoro-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	Н	ō	2-Amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	H	o	2-Amino-8-methylhypoxanthine	F	O-amino acid
CF ₃	O-amino acid	H	O	2-N-acetyl-8-methylguanine	F	O-amino acid
CF ₃	O-amino acid	Н	ō	4-N-acetyl-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	Н	o	6-N-acetyl-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	H	Ö	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-amino acid
CF ₃	O-amino acid	H	0	6-N-acetyl-2-fluoro-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	H	0	6-N-acetyl-2-amino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	H	0	2-N-acetylamino-8-methyladenine	F	O-amino acid
CF ₃	O-amino acid	Н	o	2-N-acetylamino-8-	F	O-amino acid
🗀 ,	o ammo acid	**		methylhypoxanthine	*	J-minio acid
CF ₃	O-amino acid	Н	0	6-Methylthymine	F	O-acyl
CF ₃	O-amino acid	H	0	6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	H	0	8-Methylguanine	F	O-acyl
CF ₃	O-amino acid	H	0	6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	H	0	8-Methyladenine	F	O-acyl
C1.3	O-annio acid	11	<u>U</u>	o-iviciny laucinnic	<u> </u>	U-acyi

\mathbf{R}^{6}	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Н	О	8-Methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Н	О	5-Fluoro-6-Methyluracil	F	O-acyl
CF ₃	O-amino acid	Н	О	5-Fluoro-6-Methylcytosine	F	O-acyl
CF ₃	O-amino acid	Н	О	2-Fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Н	0	2-Fluoro-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Н	0	2-Amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Н	О	2-Amino-8-methylhypoxanthine	F	O-acyl
CF ₃	O-amino acid	Н	O	2-N-acetyl-8-methylguanine	F	O-acyl
CF ₃	O-amino acid	Н	О	4-N-acetyl-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	Н	O	6-N-acetyl-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	F	O-acyl
CF ₃	O-amino acid	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Н	О	6-N-acetyl-2-amino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	Н	O	2-N-acetylamino-8-methyladenine	F	O-acyl
CF ₃	O-amino acid	H	Ō	2-N-acetylamino-8-	F	O-acyl
, ,		**		methylhypoxanthine	1	
CF ₃	O-amino acid	Н	O	6-Methylthymine	F	ОН
CF ₃	O-amino acid	Н	O	6-Methyluracil	F	OH
CF ₃	O-amino acid	H	ō	8-Methylguanine	F	OH
CF ₃	O-amino acid	Н	ō	6-Methylcytosine	F	OH
CF ₃	O-amino acid	H	ŏ	8-Methyladenine	F	OH
CF ₃	O-amino acid	H	ŏ	8-Methylhypoxanthine	F	OH
CF ₃	O-amino acid	H	o	5-Fluoro-6-Methyluracil	F	OH
CF ₃	O-amino acid	Н	o	5-Fluoro-6-Methylcytosine	F	OH
CF ₃	O-amino acid	Н	o	2-Fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	H	ō	2-Fluoro-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Н	ō	2-Amino-8-methyladenine	F	OH
CF ₃	O-amino acid	Н	o	2-Amino-8-methylhypoxanthine	F	OH
CF ₃	O-amino acid	Н	ō	2-N-acetyl-8-methylguanine	F	OH
CF ₃	O-amino acid	Н	o	4-N-acetyl-8-methylcytosine	F	OH
CF ₃	O-amino acid	Н	o	6-N-acetyl-8-methyladenine	F	OH
CF ₃	O-amino acid	Н	o	4-N-acetyl-5-fluoro-8-methylcytosine	F	OH
CF ₃	O-amino acid	H	o	6-N-acetyl-2-fluoro-8-methyladenine	F	OH
CF ₃	O-amino acid	Н	o	6-N-acetyl-2-amino-8-methyladenine	F	OH
CF ₃	O-amino acid	H	0	2-N-acetylamino-8-methyladenine	F	OH
CF ₃	O-amino acid	Н	0	2-N-acetylamino-8-	F	OH
		**		methylhypoxanthine	1.	
CF ₃	O-amino acid	Н	0	6-Methylthymine	Br	Н
CF ₃	O-amino acid	Н	0	6-Methyluracil	Br	H
CF ₃	O-amino acid	H	0	8-Methylguanine	Br	Н
CF ₃	O-amino acid	H	0	6-Methylcytosine	Br	Н
CF ₃	O-amino acid	Н	0	8-Methyladenine	Br	Н
CF ₃	O-amino acid	Н	0	8-Methylhypoxanthine	Br	H
	{	Н	0	5-Fluoro-6-Methyluracil		H
CF ₃	O-amino acid		_		Br	
CF ₃	O-amino acid	H	0	5-Fluoro-6-Methylcytosine	Br	H
CF ₃	O-amino acid	H	0	2-Fluoro-8-methyladenine	Br	H
CF ₃	O-amino acid	H	O	2-Fluoro-8-methylhypoxanthine	Br	Н

R ⁶	\mathbb{R}^7	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	H	0	2-Amino-8-methyladenine	Br	Н
CF ₃	O-amino acid	Н	0	2-Amino-8-methylhypoxanthine	Br	H
CF ₃	O-amino acid	Н	0	2-N-acetyl-8-methylguanine	Br	Н
CF ₃	O-amino acid	Н	0	4-N-acetyl-8-methylcytosine	Br	Н
CF ₃	O-amino acid	Н	O	6-N-acetyl-8-methyladenine	Br	Н
CF ₃	O-amino acid	H	0	4-N-acetyl-5-fluoro-8-methylcytosine	Br	Н
CF ₃	O-amino acid	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	Н
CF ₃	O-amino acid	Н	О	6-N-acetyl-2-amino-8-methyladenine	Br	H
CF ₃	O-amino acid	Н	O	2-N-acetylamino-8-methyladenine	Br	Н
CF ₃	O-amino acid	Н	О	2-N-acetylamino-8-	Br	Н
				methylhypoxanthine		
CF ₃	O-amino acid	H	О	6-Methylthymine	Br	O-amino acid
CF ₃	O-amino acid	Н	О	6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	Н	O	8-Methylguanine	Br	O-amino acid
CF ₃	O-amino acid	Н	О	6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Н	Ō	8-Methyladenine	Br	O-amino acid
CF ₃	O-amino acid	H	О	8-Methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Н	О	5-Fluoro-6-Methyluracil	Br	O-amino acid
CF ₃	O-amino acid	Н	O	5-Fluoro-6-Methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Н	Ō	2-Fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Н	O	2-Fluoro-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Н	Ō	2-Amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Н	O	2-Amino-8-methylhypoxanthine	Br	O-amino acid
CF ₃	O-amino acid	Н	O	2-N-acetyl-8-methylguanine	Br	O-amino acid
CF ₃	O-amino acid	Н	O	4-N-acetyl-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Н	О	6-N-acetyl-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-amino acid
CF ₃	O-amino acid	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Н	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Н	O	2-N-acetylamino-8-methyladenine	Br	O-amino acid
CF ₃	O-amino acid	Н	O	2-N-acetylamino-8-	Br	O-amino acid
				methylhypoxanthine		
CF ₃	O-amino acid	H	О	6-Methylthymine	Br	O-acyl
CF ₃	O-amino acid	Н	О	6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	Н	O	8-Methylguanine	Br	O-acyl
CF ₃	O-amino acid	Н	0	6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Н	О	8-Methyladenine	Br	O-acyl
CF ₃	O-amino acid	Н	О	8-Methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Н	O	5-Fluoro-6-Methyluracil	Br	O-acyl
CF ₃	O-amino acid	Н	О	5-Fluoro-6-Methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Н	O	2-Fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Н	О	2-Fluoro-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Н	О	2-Amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Н	О	2-Amino-8-methylhypoxanthine	Br	O-acyl
CF ₃	O-amino acid	Н	О	2-N-acetyl-8-methylguanine	Br	O-acyl
CF ₃	O-amino acid	H	О	4-N-acetyl-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Н	O	6-N-acetyl-8-methyladenine	Br	O-acyl

R ⁶	R ⁷	R ⁸	X	Base	R ¹⁰	R ⁹
CF ₃	O-amino acid	Н	О	4-N-acetyl-5-fluoro-8-methylcytosine	Br	O-acyl
CF ₃	O-amino acid	Н	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	H	О	6-N-acetyl-2-amino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Н	О	2-N-acetylamino-8-methyladenine	Br	O-acyl
CF ₃	O-amino acid	Н	0	2-N-acetylamino-8-	Br	O-acyl
				methylhypoxanthine	į	
CF ₃	O-amino acid	Н	О	6-Methylthymine	Br	ОН
CF ₃	O-amino acid	Н	О	6-Methyluracil	Br	OH
CF ₃	O-amino acid	H	О	8-Methylguanine	Br	ОН
CF ₃	O-amino acid	H	О	6-Methylcytosine	Br	OH
CF ₃	O-amino acid	H	О	8-Methyladenine	Br	OH
CF ₃	O-amino acid	Н	О	8-Methylhypoxanthine	Br	OH
CF ₃	O-amino acid	H	О	5-Fluoro-6-Methyluracil	Br	OH
CF ₃	O-amino acid	H	О	5-Fluoro-6-Methylcytosine	Br	OH
CF ₃	O-amino acid	H	О	2-Fluoro-8-methyladenine	Br	ОН
CF ₃	O-amino acid	Н	О	2-Fluoro-8-methylhypoxanthine	Br	ОН
CF ₃	O-amino acid	Н	О	2-Amino-8-methyladenine	Br	OH
CF ₃	O-amino acid	Н	О	2-Amino-8-methylhypoxanthine	Br	OH
CF ₃	O-amino acid	Н	О	2-N-acetyl-8-methylguanine	Br	OH
CF ₃	O-amino acid	Н	O	4-N-acetyl-8-methylcytosine	Br	ОН
CF ₃	O-amino acid	H	О	6-N-acetyl-8-methyladenine	Br	OH
CF ₃	O-amino acid	Н	O	4-N-acetyl-5-fluoro-8-methylcytosine	Br	ОН
CF ₃	O-amino acid	H	О	6-N-acetyl-2-fluoro-8-methyladenine	Br	OH
CF ₃	O-amino acid	Н	О	6-N-acetyl-2-amino-8-methyladenine	Br	ОН
CF ₃	O-amino acid	Н	0	2-N-acetylamino-8-methyladenine	Br	OH
CF ₃	O-amino acid	H	О	2-N-acetylamino-8-	Br	OH
				methylhypoxanthine	<u> </u>	
CF ₃	O-amino acid	H	О	6-Methylthymine	Cl	Н
CF ₃	O-amino acid	H	0	6-Methyluracil	Cl	H
CF ₃	O-amino acid	Н	О	8-Methylguanine	Cl	Н
CF ₃	O-amino acid	H	0	6-Methylcytosine	Cl	H
CF ₃	O-amino acid	H	0	8-Methyladenine	Cl	Н
CF ₃	O-amino acid		0	8-Methylhypoxanthine	Cl	H
CF ₃	O-amino acid	H	0	5-Fluoro-6-Methyluracil	Cl	H
CF ₃	O-amino acid	H	0	5-Fluoro-6-Methylcytosine	Cl	H
CF ₃	O-amino acid	H	0	2-Fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	H	0	2-Fluoro-8-methylhypoxanthine	Cl	Н
CF ₃	O-amino acid	H	0	2-Amino-8-methyladenine	Cl	Н
CF ₃	O-amino acid	H	0	2-Amino-8-methylhypoxanthine	Cl	H
CF ₃	O-amino acid	H	0	2-N-acetyl-8-methylguanine	CI	H
CF ₃	O-amino acid	H	0	4-N-acetyl-8-methylcytosine	CI	H
CF ₃	O-amino acid	H	0	6-N-acetyl-8-methyladenine	Cl	H
CF ₃	O-amino acid	H	0	4-N-acetyl-5-fluoro-8-methylcytosine	CI	H
CF ₃	O-amino acid	H	0	6-N-acetyl-2-fluoro-8-methyladenine	Cl	H
CF ₃	O-amino acid	H	0	6-N-acetyl-2-amino-8-methyladenine	Cl	H
CF ₃	O-amino acid	H	0	2-N-acetylamino-8-methyladenine	Cl	H
CF ₃	O-amino acid	H	0	2-N-acetylamino-8-	Cl	H

R ⁶	\mathbb{R}^7	R ⁸ .	X	Base	R ¹⁰	R ⁹
				methylhypoxanthine		
CF ₃	O-amino acid	Н	O	6-Methylthymine	CI	O-amino acid
CF ₃	O-amino acid	H	0	6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	Н	O	8-Methylguanine	CI	O-amino acid
CF ₃	O-amino acid	Н	O	6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Н	O	8-Methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Н	O	8-Methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	Н	O	5-Fluoro-6-Methyluracil	Cl	O-amino acid
CF ₃	O-amino acid	Н	O	5-Fluoro-6-Methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	Н	O	2-Fluoro-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Н	O	2-Fluoro-8-methylhypoxanthine	Cl	O-amino acid
CF ₃	O-amino acid	Н	O	2-Amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	Н	O	2-Amino-8-methylhypoxanthine	CI	O-amino acid
CF ₃	O-amino acid	Н	O	2-N-acetyl-8-methylguanine	CI	O-amino acid
CF ₃	O-amino acid	H	Ö	4-N-acetyl-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	H	ŏ	6-N-acetyl-8-methyladenine	CI	O-amino acid
CF ₃	O-amino acid	Н	o	4-N-acetyl-5-fluoro-8-methylcytosine	Cl	O-amino acid
CF ₃	O-amino acid	H	ō	6-N-acetyl-2-fluoro-8-methyladenine	CI	O-amino acid
CF ₃	O-amino acid	H	o	6-N-acetyl-2-amino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	H	o	2-N-acetylamino-8-methyladenine	Cl	O-amino acid
CF ₃	O-amino acid	H	ō	2-N-acetylamino-8-	Cl	O-amino acid
				methylhypoxanthine		
CF ₃	O-amino acid	H	o	6-Methylthymine	CI	O-acyl
CF ₃	O-amino acid	Н	Ō	6-Methyluracil	CI	O-acyl
CF ₃	O-amino acid	H	ō	8-Methylguanine	Cl	O-acyl
CF ₃	O-amino acid	Н	ŏ	6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	H	Ō	8-Methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Н	o	8-Methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Н	O	5-Fluoro-6-Methyluracil	Cl	O-acyl
CF ₃	O-amino acid	Н	0	5-Fluoro-6-Methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Н	0	2-Fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Н	Ŏ	2-Fluoro-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Н	o	2-Amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Н	ō	2-Amino-8-methylhypoxanthine	Cl	O-acyl
CF ₃	O-amino acid	Н	O	2-N-acetyl-8-methylguanine	CI	O-acyl
CF ₃	O-amino acid	Н	O	4-N-acetyl-8-methylcytosine	Cl	O-acyl
CF ₃	O-amino acid	Н	O	6-N-acetyl-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Н	ō	4-N-acetyl-5-fluoro-8-methylcytosine	CI	O-acyl
CF ₃	O-amino acid	Н	ō	6-N-acetyl-2-fluoro-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Н	ŏ	6-N-acetyl-2-amino-8-methyladenine	Cl	O-acyl
CF ₃	O-amino acid	Н	o	2-N-acetylamino-8-methyladenine	CI	O-acyl
CF ₃	O-amino acid	H	ō	2-N-acetylamino-8-	CI	O-acyl
,				methylhypoxanthine	-	
CF ₃	O-amino acid	Н	O	6-Methylthymine	Cl	ОН
CF ₃	O-amino acid	H	o	6-Methyluracil	CI	OH
CF ₃	O-amino acid	H	o	8-Methylguanine	Cl	ОН
CF ₃	O-amino acid	H	o	6-Methylcytosine	Cl	OH
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